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

April 2022



Air Force

Justification Book Volume 2 of 2

Aircraft Procurement, Air Force

Vol 2 Mods

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Air Force • Budget Estimates FY 2023 • Procurement

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Appropriation Language
Fiscal Year (FY) 2023 Budget Estimates
Aircraft Procurement, Air Force

For construction, procurement, and modification of aircraft and equipment, including armor and armament, specialized ground handling equipment, and training devices, spare parts, and accessories therefor; specialized equipment; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents, transportation of things, and overseas contingency operations, \$18,383,213,000 to remain available for obligations until September 30, 2025.

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

25 Mar 2022

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2021 (Base + OCO) -----	FY 2022 Less Supplementals Enactment -----	FY 2022 Division B Division C P.L.117-43 Enactment* -----	FY 2022 Division B P.L.117-70 Enactment** -----
01. Combat Aircraft	7,604,747	5,920,526		
02. Airlift Aircraft	3,908,350	4,894,270		
03. Trainer Aircraft				
04. Other Aircraft	2,058,194	1,225,826		
05. Modification of Inservice Aircraft	3,561,934	3,879,380		
06. Aircraft Spares and Repair Parts	818,307	1,007,068		
07. Aircraft Supt Equipment & Facilities	1,520,124	1,456,143		
Total Aircraft Procurement, Air Force	19,471,656	18,383,213		

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

*Includes enacted funding pursuant to the Extending Government Funding and Delivering Emergency Assistance Act (Public Law 117-43).

**Includes enacted funding pursuant to the Further Extending Government Funding Act (Public Law 117-70).

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

25 Mar 2022

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2022 Division A P.L. 117-86 Enactment*** -----	FY 2022 Division N P.L. 117-103 Enactment**** -----	FY 2022 Total Supplemental Enactment -----	FY 2022 Total Enactment -----
01. Combat Aircraft				5,920,526
02. Airlift Aircraft				4,894,270
03. Trainer Aircraft				
04. Other Aircraft				1,225,826
05. Modification of Inservice Aircraft				3,879,380
06. Aircraft Spares and Repair Parts				1,007,068
07. Aircraft Supt Equipment & Facilities				1,456,143
Total Aircraft Procurement, Air Force				18,383,213

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

25 Mar 2022

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2023 Request -----
01. Combat Aircraft	8,388,587
02. Airlift Aircraft	2,800,147
03. Trainer Aircraft	10,507
04. Other Aircraft	1,082,979
05. Modification of Inservice Aircraft	4,257,137
06. Aircraft Spares and Repair Parts	623,661
07. Aircraft Supt Equipment & Facilities	1,354,410
Total Aircraft Procurement, Air Force	18,517,428

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

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											

Strategic Offensive											
1	B-21 Raider	A									U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
2	B-21 Raider										U
	Advance Procurement (CY)					108,027					
	C (FY 2022 for FY 2023) (M)					(108,027)					
	C (FY 2023 for FY 2024) (M)										
Tactical Forces											
3	F-35	A	60	(6,197,300)	48	(4,764,804)					U
	Less: Advance Procurement (PY)			(-570,500)		(-547,200)					U
				-----		-----		-----		-----	
				5,626,800		4,217,604					
4	F-35										U
	Advance Procurement (CY)			610,800		342,536					
	C (FY 2021 for FY 2022) (M)			(462,200)							
	C (FY 2021 for FY 2023) (M)			(148,600)							
	C (FY 2022 for FY 2023) (M)					(342,536)					
	C (FY 2023 for FY 2024) (M)										
	C (FY 2023 for FY 2025) (M)										

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

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											

Strategic Offensive											
1	B-21 Raider	A									U
	Less: Advance Procurement (PY)										U
2	B-21 Raider										
	Advance Procurement (CY)									108,027	U
	C (FY 2022 for FY 2023) (M)									(108,027)	
	C (FY 2023 for FY 2024) (M)										
Tactical Forces											
3	F-35	A								48 (4,764,804)	U
	Less: Advance Procurement (PY)									(-547,200)	U
										4,217,604	
4	F-35										
	Advance Procurement (CY)									342,536	U
	C (FY 2021 for FY 2022) (M)										
	C (FY 2021 for FY 2023) (M)										
	C (FY 2022 for FY 2023) (M)										
	C (FY 2023 for FY 2024) (M)									(342,536)	
	C (FY 2023 for FY 2025) (M)										

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

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023		S e c
			Request Quantity	Cost	
Budget Activity 01: Combat Aircraft					
Strategic Offensive					
1	B-21 Raider	A		(1,606,458)	U
	Less: Advance Procurement (PY)			(-108,027)	U

				1,498,431	
2	B-21 Raider				
	Advance Procurement (CY)			288,165	U
	C (FY 2022 for FY 2023) (M)				
	C (FY 2023 for FY 2024) (M)			(288,165)	
Tactical Forces					
3	F-35	A	33	(3,811,893)	U
	Less: Advance Procurement (PY)			(-491,136)	U

				3,320,757	
4	F-35				
	Advance Procurement (CY)			594,886	U
	C (FY 2021 for FY 2022) (M)				
	C (FY 2021 for FY 2023) (M)				
	C (FY 2022 for FY 2023) (M)				
	C (FY 2023 for FY 2024) (M)			(513,825)	
	C (FY 2023 for FY 2025) (M)			(81,061)	

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Department of the Air Force
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 Total Obligational Authority
 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
5	F-15EX	A	12	(1,233,647)	12	(1,237,940)					U
	Less: Advance Procurement (PY)					(-133,500)					U
				1,233,647		1,104,440					
6	F-15EX										
	Advance Procurement (CY)			133,500		147,919					U
	C (FY 2021 for FY 2022) (M)			(133,500)							
	C (FY 2022 for FY 2023) (M)					(147,919)					
	C (FY 2023 for FY 2024) (M)										
Total Combat Aircraft				7,604,747		5,920,526					
Budget Activity 02: Airlift Aircraft											

Tactical Airlift											
7	KC-46A MDAP	A	16	2,728,113	14	2,289,015					U
Other Airlift											
8	C-130J	A	8	797,131	21	2,385,206					U
9	MC-130J	A	3	(407,486)	3	(266,049)					U
	Less: Advance Procurement (PY)			(-54,380)		(-46,000)					U
				353,106		220,049					
10	MC-130J										
	Advance Procurement (CY)			30,000							U
	C (FY 2021 for FY 2022) (M)			(30,000)							
Total Airlift Aircraft				3,908,350		4,894,270					

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Department of the Air Force
 FY 2023 President's Budget
 Exhibit P-1 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
5	F-15EX	A							12	(1,237,940)	U
	Less: Advance Procurement (PY)									(-133,500)	U
										1,104,440	
6	F-15EX									147,919	U
	Advance Procurement (CY)										
	C (FY 2021 for FY 2022) (M)									(147,919)	
	C (FY 2022 for FY 2023) (M)										
	C (FY 2023 for FY 2024) (M)										
	Total Combat Aircraft									5,920,526	
Budget Activity 02: Airlift Aircraft											

Tactical Airlift											
7	KC-46A MDAP	A							14	2,289,015	U
Other Airlift											
8	C-130J	A							21	2,385,206	U
9	MC-130J	A							3	(266,049)	U
	Less: Advance Procurement (PY)									(-46,000)	U
										220,049	
10	MC-130J										U
	Advance Procurement (CY)										
	C (FY 2021 for FY 2022) (M)										
	Total Airlift Aircraft									4,894,270	

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Department of the Air Force
 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
5	F-15EX	A	24	(2,570,267)	U
	Less: Advance Procurement (PY)			(-147,919)	U

				2,422,348	
6	F-15EX				
	Advance Procurement (CY)			264,000	U
	C (FY 2021 for FY 2022) (M)				
	C (FY 2022 for FY 2023) (M)				
	C (FY 2023 for FY 2024) (M)			(264,000)	

				8,388,587	
Total Combat Aircraft					
Budget Activity 02: Airlift Aircraft					

Tactical Airlift					
7	KC-46A MDAP	A	15	2,684,503	U
Other Airlift					
8	C-130J	A		75,293	U
9	MC-130J	A		(40,351)	U
	Less: Advance Procurement (PY)				U

				40,351	
10	MC-130J				
	Advance Procurement (CY)				U
	C (FY 2021 for FY 2022) (M)				

				2,800,147	
Total Airlift Aircraft					

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Department of the Air Force
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 Exhibit P-1 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 03: Trainer Aircraft											

UPT Trainers											
11	Advanced Trainer Replacement T-X	A									U
Total Trainer Aircraft											
Budget Activity 04: Other Aircraft											

Helicopters											
12	MH-139A	A		194,016	8	141,360					U
13	Combat Rescue Helicopter	A	19	938,309	14	743,921					U
14	CV-22 Osprey	A	2	206,220							U
Mission Support Aircraft											
15	Civil Air Patrol A/C	A		11,200		11,400					U
Other Aircraft											
16	Target Drones	A	64	133,273	22	112,443					U
17	Compass Call	A		159,867							U
18	E-11 BACN/HAG	A		63,419	2	124,435					U
19	MQ-9	A	16	338,120	4	92,267					U
20	RQ-20B Puma	A	20	13,770							U

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Department of the Air Force
 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 03: Trainer Aircraft											

UPT Trainers											
11	Advanced Trainer Replacement T-X	A									U
Total Trainer Aircraft											
Budget Activity 04: Other Aircraft											

Helicopters											
12	MH-139A	A							8	141,360	U
13	Combat Rescue Helicopter	A							14	743,921	U
14	CV-22 Osprey	A									U
Mission Support Aircraft											
15	Civil Air Patrol A/C	A								11,400	U
Other Aircraft											
16	Target Drones	A							22	112,443	U
17	Compass Call	A									U
18	E-11 BACN/HAG	A							2	124,435	U
19	MQ-9	A							4	92,267	U
20	RQ-20B Puma	A									U

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

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
Budget Activity 03: Trainer Aircraft					

UPT Trainers					
11	Advanced Trainer Replacement T-X	A		10,507	U
Total Trainer Aircraft				----- 10,507	
Budget Activity 04: Other Aircraft					

Helicopters					
12	MH-139A	A	5	156,192	U
13	Combat Rescue Helicopter	A	10	707,018	U
14	CV-22 Osprey	A			U
Mission Support Aircraft					
15	Civil Air Patrol A/C	A		2,952	U
Other Aircraft					
16	Target Drones	A	27	128,906	U
17	Compass Call	A			U
18	E-11 BACN/HAG	A	1	67,260	U
19	MQ-9	A		17,039	U
20	RQ-20B Puma	A			U

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25 Mar 2022

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Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B Division B P.L.117-70 Enactment**		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
21	Agility Prime Procurement	A									U
Total Other Aircraft				2,058,194		1,225,826					
Budget Activity 05: Modification of Inservice Aircraft											

Strategic Aircraft											
22	B-2A	A		30,819		29,944					U
23	B-1B	A		17,825		27,406					U
24	B-52	A		18,081		70,420					U
25	Large Aircraft Infrared Countermeasures	A		56,320		57,001					U
Tactical Aircraft											
26	A-10	A		135,793		83,621					U
27	E-11 BACN/HAG	A		28,401		68,955					U
28	F-15	A		161,594		178,953					U
29	F-16	A		613,382		612,408					U
30	F-22A	A		357,586		407,927					U
31	F-35 Modifications	A		220,832		247,928					U
32	F-15 EPAW	A			18	149,797					U
33	Increment 3.2b	A		1,289							U
34	KC-46A MDAP	A		2,000		1,984					U

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25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
21	Agility Prime Procurement	A									U
Total Other Aircraft										1,225,826	
Budget Activity 05: Modification of Inservice Aircraft											

Strategic Aircraft											
22	B-2A	A								29,944	U
23	B-1B	A								27,406	U
24	B-52	A								70,420	U
25	Large Aircraft Infrared Countermeasures	A								57,001	U
Tactical Aircraft											
26	A-10	A								83,621	U
27	E-11 BACN/HAG	A								68,955	U
28	F-15	A								178,953	U
29	F-16	A								612,408	U
30	F-22A	A								407,927	U
31	F-35 Modifications	A								247,928	U
32	F-15 EPAW	A							18	149,797	U
33	Increment 3.2b	A									U
34	KC-46A MDAP	A								1,984	U

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25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
21	Agility Prime Procurement	A	5	3,612	U
Total Other Aircraft				1,082,979	
Budget Activity 05: Modification of Inservice Aircraft					
Strategic Aircraft					
22	B-2A	A		106,752	U
23	B-1B	A		36,313	U
24	B-52	A		127,854	U
25	Large Aircraft Infrared Countermeasures	A		25,286	U
Tactical Aircraft					
26	A-10	A		83,972	U
27	E-11 BACN/HAG	A		10,309	U
28	F-15	A		194,379	U
29	F-16	A		700,455	U
30	F-22A	A		764,222	U
31	F-35 Modifications	A		414,382	U
32	F-15 EPAW	A	19	259,837	U
33	Increment 3.2b	A			U
34	KC-46A MDAP	A		467	U

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25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Airlift Aircraft											
35	C-5	A		50,279		20,330					U
36	C-17A	A		44,798		54,649					U
37	C-32A	A		2,947		1,949					U
38	C-37A	A		12,985		5,984					U
Trainer Aircraft											
39	Glider Mods	A		1,172		142					U
40	T-6	A		9,334		8,735					U
41	T-1	A		4,465		872					U
42	T-38	A		40,806		45,039					U
Other Aircraft											
43	Spectrum Relocation Fund	A		2,634							U
44	U-2 Mods			120,217		121,009					U
45	KC-10A (ATCA)	A		117		1,902					U
46	C-21	A									U
47	VC-25A Mod	A		1,983		96					U
48	C-40	A		7,252		10,262					U
49	C-130	A		263,600		272,251					U
50	C-130J Mods	A		135,882		110,784					U

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

*Includes enacted funding pursuant to the Extending Government Funding and Delivering Emergency Assistance Act (Public Law 117-43).

**Includes enacted funding pursuant to the Further Extending Government Funding Act (Public Law 117-70).

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

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Airlift Aircraft											
35	C-5	A								20,330	U
36	C-17A	A								54,649	U
37	C-32A	A								1,949	U
38	C-37A	A								5,984	U
Trainer Aircraft											
39	Glider Mods	A								142	U
40	T-6	A								8,735	U
41	T-1	A								872	U
42	T-38	A								45,039	U
Other Aircraft											
43	Spectrum Relocation Fund	A									U
44	U-2 Mods									121,009	U
45	KC-10A (ATCA)	A								1,902	U
46	C-21	A									U
47	VC-25A Mod	A								96	U
48	C-40	A								10,262	U
49	C-130	A								272,251	U
50	C-130J Mods	A								110,784	U

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

***Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).

****Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

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

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023		S e c
			Request Quantity	Cost	
----	-----	----	-----	----	-
Airlift Aircraft					
35	C-5	A		46,027	U
36	C-17A	A		152,009	U
37	C-32A	A		4,068	U
38	C-37A	A		6,062	U
Trainer Aircraft					
39	Glider Mods	A		149	U
40	T-6	A		6,215	U
41	T-1	A		6,262	U
42	T-38	A		111,668	U
Other Aircraft					
43	Spectrum Relocation Fund	A			U
44	U-2 Mods			81,650	U
45	KC-10A (ATCA)	A		3,443	U
46	C-21	A		2,024	U
47	VC-25A Mod	A		2,146	U
48	C-40	A		2,197	U
49	C-130	A		114,268	U
50	C-130J Mods	A		112,299	U

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

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

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
51	C-135	A		72,350		58,776					U
52	Compass Call	A		180,983		195,098					U
53	RC-135	A		191,332		207,596					U
54	E-3	A		107,328		91,301					U
55	E-4	A		44,140		19,081					U
56	E-8	A		22,037		16,312					U
57	Airborne Warning and Cntrl Sys (AWACS) 40/45	A		47,276		24,827					U
58	Family of Beyond Line-of-Sight Terminals	A		1,573							U
59	H-1	A		4,410		1,533					U
60	H-60	A		26,428		14,479					U
61	Combat Rescue Helicopter Modification	A									U
62	RQ-4 Mods	A		3,350		3,205					U
63	HC/MC-130 Modifications	A		76,573		147,993					U
64	Other Aircraft	A		103,854		54,828					U
65	MQ-9 Mods	A		155,011		144,287					U
66	MQ-9 UAS Payloads	A		63,500		55,200					U
67	Senior Leader C3, System - Aircraft	A				23,554					U
68	CV-22 Mods	A		119,396		230,962					U
Total Modification of Inservice Aircraft				3,561,934		3,879,380					

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

*Includes enacted funding pursuant to the Extending Government Funding and Delivering Emergency Assistance Act (Public Law 117-43).

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

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
51	C-135	A							58,776		U
52	Compass Call	A							195,098		U
53	RC-135	A							207,596		U
54	E-3	A							91,301		U
55	E-4	A							19,081		U
56	E-8	A							16,312		U
57	Airborne Warning and Cntrl Sys (AWACS) 40/45	A							24,827		U
58	Family of Beyond Line-of-Sight Terminals	A									U
59	H-1	A							1,533		U
60	H-60	A							14,479		U
61	Combat Rescue Helicopter Modification	A									U
62	RQ-4 Mods	A							3,205		U
63	HC/MC-130 Modifications	A							147,993		U
64	Other Aircraft	A							54,828		U
65	MQ-9 Mods	A							144,287		U
66	MQ-9 UAS Payloads	A							55,200		U
67	Senior Leader C3, System - Aircraft	A							23,554		U
68	CV-22 Mods	A							230,962		U
Total Modification of Inservice Aircraft									3,879,380		

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

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Department of the Air Force
 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
51	C-135	A		149,023	U
52	Compass Call	A		16,630	U
53	RC-135	A		212,828	U
54	E-3	A		54,247	U
55	E-4	A		5,973	U
56	E-8	A		16,610	U
57	Airborne Warning and Cntrl Sys (AWACS) 40/45	A			U
58	Family of Beyond Line-of-Sight Terminals	A			U
59	H-1	A		1,757	U
60	H-60	A		10,820	U
61	Combat Rescue Helicopter Modification	A		3,083	U
62	RQ-4 Mods	A		1,286	U
63	HC/MC-130 Modifications	A		138,956	U
64	Other Aircraft	A		29,029	U
65	MQ-9 Mods	A		64,370	U
66	MQ-9 UAS Payloads	A			U
67	Senior Leader C3, System - Aircraft	A		24,784	U
68	CV-22 Mods	A		153,026	U
Total Modification of Inservice Aircraft				4,257,137	

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

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Department of the Air Force
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B Division B P.L.117-70 Enactment**		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 06: Aircraft Spares and Repair Parts											

Aircraft Spares and Repair Parts											
69	Initial Spares/Repair Parts	A	818,307		1,007,068						U
Total Aircraft Spares and Repair Parts			818,307		1,007,068						
Budget Activity 07: Aircraft Supt Equipment & Facilities											

Common Support Equipment											
70	Aircraft Replacement Support Equip	A	140,901		138,761						U
Post Production Support											
71	B-2A	A	1,683		1,651						U
72	B-2B	A	37,310		38,811						U
73	B-52	A	1,034		3,602						U
74	F-15	A	2,632		2,324						U
75	F-16	A	13,484		10,456						U
76	Other Aircraft	A	4,595								U
77	MQ9 Post Prod	A									U
78	RQ-4 Post Production Charges	A	1,750		24,592						U
Industrial Preparedness											
79	Industrial Responsiveness	A	18,215		18,110						U

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

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Department of the Air Force
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25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 06: Aircraft Spares and Repair Parts											

Aircraft Spares and Repair Parts											
69	Initial Spares/Repair Parts	A								1,007,068	U
Total Aircraft Spares and Repair Parts										1,007,068	
Budget Activity 07: Aircraft Supt Equipment & Facilities											

Common Support Equipment											
70	Aircraft Replacement Support Equip	A								138,761	U
Post Production Support											
71	B-2A	A								1,651	U
72	B-2B	A								38,811	U
73	B-52	A								3,602	U
74	F-15	A								2,324	U
75	F-16	A								10,456	U
76	Other Aircraft	A									U
77	MQ9 Post Prod	A									U
78	RQ-4 Post Production Charges	A								24,592	U
Industrial Preparedness											
79	Industrial Responsiveness	A								18,110	U

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

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Department of the Air Force
 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
Budget Activity 06: Aircraft Spares and Repair Parts					

Aircraft Spares and Repair Parts					
69	Initial Spares/Repair Parts	A		623,661	U
Total Aircraft Spares and Repair Parts				623,661	

Budget Activity 07: Aircraft Supt Equipment & Facilities					

Common Support Equipment					
70	Aircraft Replacement Support Equip	A		138,935	U
Post Production Support					
71	B-2A	A		1,802	U
72	B-2B	A		36,325	U
73	B-52	A		5,883	U
74	F-15	A		2,764	U
75	F-16	A		5,102	U
76	Other Aircraft	A			U
77	MQ9 Post Prod	A		7,069	U
78	RQ-4 Post Production Charges	A		40,845	U
Industrial Preparedness					
79	Industrial Responsiveness	A		19,128	U

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

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Department of the Air Force
 FY 2023 President's Budget
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 Total Obligational Authority
 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
	War Consumables										
80	War Consumables	A		32,046		35,866					U
	Other Production Charges										
81	Other Production Charges	A		1,244,780		1,163,878					U
83	Cancelled Acct Adjustments	A		2							U
999	Classified Programs			21,692		18,092					U
	Total Aircraft Supt Equipment & Facilities			1,520,124		1,456,143					
	Total Aircraft Procurement, Air Force			19,471,656		18,383,213					

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

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Department of the Air Force
 FY 2023 President's Budget
 Exhibit P-1 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
	War Consumables										
80	War Consumables	A							35,866		U
	Other Production Charges										
81	Other Production Charges	A							1,163,878		U
83	Cancelled Acct Adjustments	A									U
999	Classified Programs								18,092		U
	Total Aircraft Supt Equipment & Facilities								1,456,143		
	Total Aircraft Procurement, Air Force								18,383,213		

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Department of the Air Force
 FY 2023 President's Budget
 Exhibit P-1 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023		S e c
			Request Quantity	Cost	
----	-----	----	-----	----	-
	War Consumables				
80	War Consumables	A		31,165	U
	Other Production Charges				
81	Other Production Charges	A		1,047,300	U
83	Cancelled Acct Adjustments	A			U
999	Classified Programs			18,092	U
	Total Aircraft Supt Equipment & Facilities			1,354,410	
	Total Aircraft Procurement, Air Force			18,517,428	

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

Lookup Matrix by Model

Model:	B-2	
Modification P-40a Aggregated Items Title:	B-2A	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
110032	LINK 16/CID/IFR	No
110054	B-2 Flex Strike Phase 1	No
110056	B61-12 Integration	No
110057	MGUE	No
8882	Common Very Low Frequency Terminal	No
99999U	B-2 Low Cost Engine Modifications	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
110031	B-2 Trainer System Upgrade	No
110035	LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS	No
110043	B-2 Adaptable Communications Suite (ACS)	No
110044	B-2 DMS / Displays	No

Model:	B-2A	
Modification P-40a Aggregated Items Title:	B-2A	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
110062	Crash Survivable Memory Unit (CSMU)	No

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

Model:	B-2A	
Modification P-40a Aggregated Items Title:	B-2A	
Item Number	Item Title	Applies to Multiple Models
110065	B-2 GBU-57 MOP Integration	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
110061	IFF Mode 5/S	No

Model:	B-1B	
Modification P-40a Aggregated Items Title:	B-1B	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
4284	CITS UPGRADE	No
4291	B-1 TRAINING SUPPORT	No
92294	LAPTOP CONTROLLED TARGETING POD	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
4280	Fully Integrated Data Links	No
8971	VERTICAL SITUATION DISPLAYS	No

Model:	B-1	
Modification P-40a Aggregated Items Title:	B-1B	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		

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

Model:	B-1	
Modification P-40a Aggregated Items Title:	B-1B	
Item Number	Item Title	Applies to Multiple Models
4290	GPS M-Code	No
92317	IFF Mode 5/S ADS-B	No
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8674	ATP upgrade Legacy to SE	Yes
8675	ATP-SE Technology Insertion	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
92314	MIDS-JTRS	No
92316	Radio Crypto Compliance	No
8676	ATP-TI Increment 1	Yes

Model:	B-52H	
Modification P-40a Aggregated Items Title:	B-52	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
3265	B-52 Anti-Skid Replacement	No
6885	AETC Trainers (B-52)	No
6890	B-52 Radar Modernization	No
6900	Advanced Extremely High Frequency (AEHF)	No
6901	Airspace Compliance	No

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

Model:	B-52H	
Modification P-40a Aggregated Items Title:	B-52	
Item Number	Item Title	Applies to Multiple Models
99999X	Other Mods	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
3310	B-52 Combat Network Communications Technology	No
6889	Bomber Tactical Data link	No
6893	GPS-IU Replacement	No
6894	B-52 Crypto Modernization	No
6896	B-52 VLF/LF Modernization	No

Model:	NA	
Modification P-40a Aggregated Items Title:	B-52	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
6891	B-52 WST AR Upgrade Trainer	No

Model:	B-52	
Modification P-40a Aggregated Items Title:	B-52	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
6892	B-52 Low Cost Improvements	No
6897	B-52 CERP	No
6899	B-52 Quad Crew Initiative	No

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Model:	B-52	
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8674	ATP upgrade Legacy to SE	Yes
8675	ATP-SE Technology Insertion	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8676	ATP-TI Increment 1	Yes

Model:	C-130	
Modification P-40a Aggregated Items Title:	Large Aircraft Infrared Countermeasures	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8629C130	LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130	No
Modification P-40a Aggregated Items Title:	C-130	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
99999M	MISC SIMULATOR UPDATES	No
99999X	Low Cost Modifications	No

Model:	C-17	
Modification P-40a Aggregated Items Title:	Large Aircraft Infrared Countermeasures	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		

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

Model:	C-17	
Modification P-40a Aggregated Items Title:	Large Aircraft Infrared Countermeasures	
Item Number	Item Title	Applies to Multiple Models
8629C17	LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17	No
Modification P-40a Aggregated Items Title:	C-17A	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
_2000	Pylon Stub FFLZ, FF, Translating Fairing	No
_2590	ELT Frequency Change	No
_2633	MFOQA	No
1508	IFF GATM	No
2901	Automatic Dependent Surveillance - Broadcast Out (ADS-B Out)	No
6403	Filter Fire Mitigation	No
9740	Fixed Installation Satellite Antenna (FISA)	No
9742	C-17 Simulator Lateral Motion Maneuver Enhancement	No
9744	C-17 Visual System Field of View	No
9747	C-17 Training System (Other Mods)	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
3080	Replacement Heads Up Display (RHUD)	No
9741	Beyond Line of Sight (BLOS)	No

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

Model:	C-5B	
Modification P-40a Aggregated Items Title:	Large Aircraft Infrared Countermeasures	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8629C5	LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5	Yes
Modification P-40a Aggregated Items Title:	C-5	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8965	C-5 Fleet Blk Upgrade 01	Yes

Model:	C-5C	
Modification P-40a Aggregated Items Title:	Large Aircraft Infrared Countermeasures	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8629C5	LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5	Yes
Modification P-40a Aggregated Items Title:	C-5	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8965	C-5 Fleet Blk Upgrade 01	Yes

Model:	C-5M	
Modification P-40a Aggregated Items Title:	Large Aircraft Infrared Countermeasures	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8629C5	LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5	Yes

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Model:	C-5M		
Modification P-40a Aggregated Items Title:	C-5		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8964	C-5 Replace Multifunctional Co	No	
8965	C-5 Fleet Blk Upgrade 01	Yes	
8966	C-5 Mission Systems Equipment- Lavatory	No	
8968	C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM)	No	
8969	C-5 Training Systems (Training Mods)	No	
99999X	Low Cost Modifications	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
8967	Mission Computer and Weather Radar	No	
8978	Distributed Mission Operations (DMO) and Mobility Air Force (MAF) Training	No	
8979	Maintenance Training Simulator	No	

Model:	C-143		
Modification P-40a Aggregated Items Title:	Large Aircraft Infrared Countermeasures		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8629CFIN	LAIRCM CFIN	No	

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

Model:	LPO	
Modification P-40a Aggregated Items Title:	Large Aircraft Infrared Countermeasures	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8629LC	Large Aircraft Infrared Countermeasures	No

Model:	C130J	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J	No

Model:	A-10C	
Modification P-40a Aggregated Items Title:	A-10	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
7856	MODE S/5	No
9830	Central Interface Control System (CICS)	No
9834	A-10 High Resolution Display System (HRDS)	No
9836	3-Dimensional Audio (3DA)	No
9839	SDB-1	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
9831	ARC-210 (Capability Improvement)	No
9832	2ND GIGABET ETHERNET SWITCH (2GES) (Capability Improvement)	No

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Exhibit P-1M, Procurement Programs - Modification Summary
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Model:	A-10	
Modification P-40a Aggregated Items Title:	A-10	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
9601	ONBOARD OXYGEN GENERATING SYSTEM (OBOGS)	No
99999X	Low Cost Modifications	No
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8674	ATP upgrade Legacy to SE	Yes
8675	ATP-SE Technology Insertion	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
674809	A01000 Portable Automatic Test Set 70 A (PATS-70A)	No
9804	A-10 Wing Replacement Program	No
9806	A-10 Helmet Mounted Cueing System	No
8676	ATP-TI Increment 1	Yes

Model:	A01000A	
Modification P-40a Aggregated Items Title:	A-10	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
9816	A-10 Conversion Fuel Tanks	No

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

Model:	E-11A	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	E-11 Mods	No

Model:	F-15C	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1203	F-15 C/D Secondary Power System (SPS)	Yes
1205	:Advanced Display Core Processor, ADCP II-C	Yes
1206	F-15C Infrared Search and Track (IRST)	Yes
1209	F-15 C/D Flight Data Recorder (FDR)	Yes
6158	F-15C/D APG-63(V)3 radar upgrade	Yes
8754	F-15C/D IFF Mode 5	Yes
8755	F-15E IFF MODE 5	Yes
8756	F-15C/D Link 16 Cryptographic Modernization	Yes
8794	F-15C/D Beyond Line Of Sight Communications	No
8797	F-15C Passive Attack Sensor System	No
8798	5th to 4th Gen Gateway	Yes
8799	F-15C MIDS JTRS	No
8815	F-15C Simulator Upgrade	No
8816	F-15C/D APG-63(V)3 Common Config	Yes
99999X	Low Cost Modifications	Yes

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

Model:	F-15C		
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8674	ATP upgrade Legacy to SE	Yes	
8675	ATP-SE Technology Insertion	Yes	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
8801	F-15 C/D SLEP Longerons	Yes	
8676	ATP-TI Increment 1	Yes	

Model:	F-15D		
Modification P-40a Aggregated Items Title:	F-15		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
1203	F-15 C/D Secondary Power System (SPS)	Yes	
1205	:Advanced Display Core Processor, ADCP II-C	Yes	
1206	F-15C Infrared Search and Track (IRST)	Yes	
1209	F-15 C/D Flight Data Recorder (FDR)	Yes	
6158	F-15C/D APG-63(V)3 radar upgrade	Yes	
8754	F-15C/D IFF Mode 5	Yes	
8755	F-15E IFF MODE 5	Yes	
8756	F-15C/D Link 16 Cryptographic Modernization	Yes	
8798	5th to 4th Gen Gateway	Yes	
8816	F-15C/D APG-63(V)3 Common Config	Yes	

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

Model:	F-15D	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
99999X	Low Cost Modifications	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8801	F-15 C/D SLEP Longerons	Yes

Model:	F-15E	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1210	F-15E Flight Data Recorder (FDR)	No
8353	F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM	No
8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	No
8755	F-15E IFF MODE 5	Yes
8756	F-15C/D Link 16 Cryptographic Modernization	Yes
8810	F-15E APG-82(V)1 Common Config	No
8811	F-15E SATCOM UON	No
8813	F-15E B61 A/C Umbilical	No
8825	F-15E M Code	No
99999U	LOW COST RETROFIT MODS	No
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		

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

Model:	F-15E	
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
8674	ATP upgrade Legacy to SE	Yes
8675	ATP-SE Technology Insertion	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1202	F-15E Radar Modernization Program APG-82(V)1	No
1	Advanced Display Core Processor, ADCP II-E	No
8800	F-15E MIDS JTRS	No
8804	F-15 F-15 E/MUOS	No
8817	F-15E DTM II	No
8796	EPAWSS F-15E	No
8676	ATP-TI Increment 1	Yes

Model:	F15CD	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8806	F-15 C/D Cabin Pressure Indicator	No

Model:	F15E	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		

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(Listing by Model)

Model:	F15E	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
8807	F-15 E Cabin Pressure Indicator	No

Model:	F-15A	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
99999X	Low Cost Modifications	Yes

Model:	F-15B	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
99999X	Low Cost Modifications	Yes

Model:	F-16	
Modification P-40a Aggregated Items Title:	F-16	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
633030	Aggressors Update	No
633032	AIFF MODE 5	No
633033	M-Code	No
633037	JHMCS	No

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 (Listing by Model)

Model:	F-16		
Modification P-40a Aggregated Items Title:	F-16		
Item Number	Item Title	Applies to Multiple Models	
633038	RFC	No	
633039	Heads-Up Display (HUD)	No	
633041	Anti Jam	No	
633042	Missile Warning Systems	No	
661652	Link 16 Crypto	No	
704050	Digital Radar Warning Receiver (RWR)	No	
8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	No	
866250	F-16 TRAINING SYSTEMS	No	
866251	Full Combat Mission Training	No	
99999X	Low Cost Modifications	No	
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8669	Full Combat Mission Training	No	
8674	ATP upgrade Legacy to SE	Yes	
8675	ATP-SE Technology Insertion	Yes	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
602148	MMC and Display Generator Upgrade	No	
602600	F-16 LEGACY STRUCTURAL SLEP	No	
618250	Comm Suite Upgrade	No	

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

Model:	F-16	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
633031	HFLCC AGCAS	No
633034	Secure Mission Data Systems	No
633035	IVEWS	No
633036	CDU	No
661653	MIDS-JTRS	No
694050	AESA Radars	No
8676	ATP-TI Increment 1	Yes

Model:	F-22	
Modification P-40a Aggregated Items Title:	F-22A	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
F22014	F119 Engine Modifications	No
F22022	Structures Retrofit Plan	No
F22024	Trainers Modernization	No
F22027	Crypto Modernization	No
F22031	Viability	No
F22035	Low Drag Tanks and Pylons	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	Reliability and Maintainability Program	No
2	Link 16	No

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

Model:	F-22	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
3	Mode 5 Challenge and Reply	No
4	Sensor Enhancement	No
5	Navigation Systems Hardware	No
11100	INCREMENT 3.2B	No

Model:	F-35A	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	Block 3i LRIP 2-5 Upgrade	No
2	Block 3F LRIP 2-5 Upgrade	No
3	Block 3F LRIP 6-8 Upgrade	No
4	Concurrency	No
5	Correction of Deficiencies	No
6	Block 4 Modifications	No
7	Propulsion	No
8	Reliability and Maintainability	No

Model:	c-17	
Modification P-40a Aggregated Items Title:	C-17A	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		

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Model:	c-17		
Modification P-40a Aggregated Items Title:	C-17A		
Item Number	Item Title	Applies to Multiple Models	
9748	C-17 Training System (Training Mods)	No	

Model:	C-37		
Modification P-40a Aggregated Items Title:	C-37A		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
1117	WIDEBAND SATCOM	No	
1118	CNS/ATM Compliance	No	
1122	SAT 906	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
2	C-37 - SLC3SA	No	

Model:	C-37A		
Modification P-40a Aggregated Items Title:	C-37A		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
99999S	SERVICE BULLETINS	Yes	
99999X	Low Cost Modifications	Yes	

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

Model:	C-37B		
Modification P-40a Aggregated Items Title:	C-37A		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
99999S	SERVICE BULLETINS	Yes	
99999X	Low Cost Modifications	Yes	

Model:	T-6A		
Modification P-40a Aggregated Items Title:	T-6		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
9873	Canopy Fracture Initiation System	No	
9877	Avionics Upgrades FAA Compliance	No	
9878	Aircrew Training Device (ATD) Modernization	No	
9894	Avionics Modernization	No	
99999S	SERVICE BULLETINS	No	
99999X	Low Cost Modifications	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
9893	Crew System Modernization Program	No	

Model:	T-6		
Modification P-40a Aggregated Items Title:	T-6		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			

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Model:	T-6	
Modification P-40a Aggregated Items Title:	T-6	
Item Number	Item Title	Applies to Multiple Models
9892	Reliability & Maintainability (R&M) Safety Mods	No

Model:	T-1A	
Modification P-40a Aggregated Items Title:	T-1	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8998	Crew Relief Station Replacement	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8997	Avionics Modification	No

Model:	T-38	
Modification P-40a Aggregated Items Title:	T-38	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
6092	T-38 A/B ADS-B Out	No
6094	T-38A/B ESUP II	No
99999A	LOW COST SAFETY MODIFICATIONS	No
99999X	Low Cost Modifications	No

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

Model:	T-38	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
6088	Pacer Classic III	No
6090	T-38 Avionics	No
6091	Talon Repair, Inspection and Maintenance	No

Model:	T03800	
Modification P-40a Aggregated Items Title:	T-38	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
6093	T-38 Canopy	No

Model:	U-2	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
4494	U-2 Mod	No
4496	ASARS-2B Procurement for U-2	No

Model:	C-130H	
Modification P-40a Aggregated Items Title:	C-130	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
3773	C-130 8-Bladed Propeller Upgrade	No
8221	C-130 ALR-69A Radar Warning Receiver (RWR)	No

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

Model:	C-130H		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	
9139	MOD V IFF	No	
9149	C-130 Aux Hyd Pump	Yes	
92302	C-130H Avionics Modernization Program (AMP) Increment 1	No	
92308	T-56 3.5 Engine Mod	No	
92311	Electronic Propeller Control System (EPCS)	No	
92312	In-Flight Propeller Balancing System (IPBS)	No	
92315	C-130H Simulator	No	
92321	C-130H MUOS	No	
92322	MAFFS	No	
99999A	LOW COST SAFETY MODIFICATIONS	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
8518	C-130H Avionics Modernization Program (AMP) Increment 2	No	

Model:	MC-130H		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	
9149	C-130 Aux Hyd Pump	Yes	

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Model:	MC-130H		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
92316	AFSOC C-130 Mods	No	

Model:	HC-130P		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	

Model:	HC-130N		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	

Model:	EC-130H		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	

Modification P-40a Aggregated Items Title:	Compass Call		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			

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 (Listing by Model)

Model:	EC-130H		
Modification P-40a Aggregated Items Title:	Compass Call		
Item Number	Item Title	Applies to Multiple Models	
1001	COMPASS CALL	No	

Model:	AC-130U		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	

Model:	No text provided.		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
9141	C-130 CRASHWORTHY LOADMASTER SEAT	No	
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8736	Counterdrug USSOUTHCOM Support	No	

Model:	MC-130W		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			

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(Listing by Model)

Model:	MC-130W		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
9149	C-130 Aux Hyd Pump	Yes	

Model:	HC-130H		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
92309	Onboard Fire Incident Response Equipment	No	

Model:	HC-130		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
92310	HC-130P/N Variable Speed Drogue (VSD)	No	
99999C	HC-130 Low Cost Mods	No	

Model:	C-130J		
Modification P-40a Aggregated Items Title:	C-130J Mods		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
_2612	Avionics System and Structural Modifications	No	
_5296	Wind Gust Brake	No	
8668	WST Threat Generators	No	

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

Model:	C-130J	
Modification P-40a Aggregated Items Title:	C-130J Mods	
Item Number	Item Title	Applies to Multiple Models
8669	Communication Modernization	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
5222	BLOCK 8.1	No
8646	C-130J Center Wing Replacement	No

Model:	KC-135	
Modification P-40a Aggregated Items Title:	C-135	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
9818	VOR/ILS ANTENNAE	No
9824	ADS-B	No
9828	Real Time in the Cockpit (RTIC)	No
99999A	LOW COST SAFETY MODIFICATIONS	No
99999X	Low Cost Modifications	No
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8670	MAF Training	No
8735	DAS000 (ROBE)	Yes

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

Model:	KC-135	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8653	BLOCK 45	No
9826	Rudder Position Indicator (RPI)	No
9827	KC-135 AERO-I SATCOM replacement	No
9829	MUOS Radios	No
9831	COMM2 Crypto and Data	No

Model:	EC-37B	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1003	COMPASS CALL Baseline Modifications	No

Model:	WC-135R	
Modification P-40a Aggregated Items Title:	RC-135	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
4266	CONSTANT PHOENIX	No

Model:	RC-135S	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
2504	COBRA BALL	Yes

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

Model:	TC-135W	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
2504	COBRA BALL	Yes
4263	RIVET JOINT	Yes

Model:	RC-135V	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
4263	RIVET JOINT	Yes

Model:	RC-135W	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
4263	RIVET JOINT	Yes

Model:	RC-135U	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
4265	COMBAT SENT	No

Model:	E-3	
Modification P-40a Aggregated Items Title:	E-3	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
50001T	BLOCK 40/45 UPGRADE	No

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

Model:	E-3	
Modification P-40a Aggregated Items Title:	E-3	
Item Number	Item Title	Applies to Multiple Models
50002	Communication Networking Upgrade (CNU)	No
7225	NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF)	No
8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	No
9707	RM&A Mod	No
9716	VERTICAL STABILIZER AND RUDDER	No
9718	IP-enabled Capability (IPEC)	No
99999XA	LOW COST MOD - AIRFRAME	No
99999XB	LOW COST MOD - AVIONICS & MISSION SYSTEMS	No
99999XC	Low Cost Mod - Communications	No
99999XD	Low Cost Mod - Human Systems	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
9721	AWACS Communications Integration Program (ACIP)	No
1	BLOCK 40/45 BLOCK UPGRADE	No

Model:	E-3B	
Modification P-40a Aggregated Items Title:	E-3	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
50002T	AWACS Mode 5 Acceleration	Yes

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

Model:	E-3B	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
9709	E-3 DRAGON	Yes

Model:	E-3C	
Modification P-40a Aggregated Items Title:	E-3	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
50002T	AWACS Mode 5 Acceleration	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
9709	E-3 DRAGON	Yes

Model:	E-4B	
Modification P-40a Aggregated Items Title:	E-4	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
3411	Survivable SHF	No
4406B	AEHF Compatible Terminal/PNVC	No
4409	Low Frequency Transmit System (LFTS)	No
99999S	SERVICE BULLETINS	No

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

Model:	E-4		
Modification P-40a Aggregated Items Title:	E-4		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
4380	MUOS	No	
99999X	Low Cost Modifications	No	

Model:	E-8C		
Modification P-40a Aggregated Items Title:	E-8		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
38203	Distributed Mission Ops Center (DMOC)	No	
38206	SATCOM/MUOS Radios	No	
38207	JSTARS Re-engining	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
38202	Common Data Link	No	

Model:	E-8		
Modification P-40a Aggregated Items Title:	E-8		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
38204	JSTARS OCO Requirements	No	

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

Model:	HH-60G	
Modification P-40a Aggregated Items Title:	H-60	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8564	Control Display Unit (CDU)	No
8565	Navigation System Upgrade (NSU)	No
8844	Multi-function Color Display	No
8850	MODE 5	No
8852	CSAR Avionics/Electrical Upgrade	No
8854	HH-60 OLR Mission Modifications	No
8856	Block 162	No
8859	DVE Sensor	No
8861	HH-60 DATALINKS	No
8862	HH-60G Communication Suite Control Integration	No
8863	Load Stabilizers	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8853	DEFENSIVE SYSTEM UPGRADE	No

Model:	RQ-4	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
470001	GH Aircraft Mods	No
470003	GH Ground Station Mods	No

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

Model:	RQ-4	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
470009	ASIP Increment I	No
470010	SAR	No
470011	ASIP Install/Calibration	No
470012	MODE 5/ADS-B	No
470013	Sensor Enhancements	No
470019	Communication Interoperability/Enhancements	No

Model:	MC-130J	
Modification P-40a Aggregated Items Title:	HC/MC-130 Modifications	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8765	LAIRCM Updates	No
99999Y	MC-Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8632	MC-130J Increment 2	No
8642	(AbMN) Airborne Mission Networking	No
8648	ADS-B out Acceleration	No
8659	Broadband Antenna	No
8762	MC-130J Link 16	No
8764	MC-Trainer Modifications	No

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

Model:	HC-130J	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
5222	HC/MC-130J Block 8.1	No
8634	HC-130J Common Configuration	No
8635	HC-130J Personnel Locator System	No
8636	HC-130J Situational Awareness	No
8639	Wireless Intercom	No
8652	(RFCM) Radio Frequency Countermeasures	No
8658	Paratroop Door	No
8737	HC-Communications Modernization Phase I	No
8738	HC-Communications Modernization Phase II	No
8760	HC Trainer Modifications	No
8763	HC-130J Link 16	No
8767	HC-Star XIII	No
8768	HC-EO/IR Sensor Modification	No
1	HC- Low Cost Modifications	No

Model:	MCAC-130J	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8761	MC/AC-Communications Modernization Phase I	No

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

Model:	KC-46A		
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title		Applies to Multiple Models
Uncategorized			
8735	DAS000 (ROBE)		Yes

Model:	E-9		
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title		Applies to Multiple Models
Uncategorized			
99999J	MISCELLANEOUS LOW COSTS MODS (Combat Developments)		No

Model:	HH-60U		
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title		Applies to Multiple Models
Uncategorized			
HH-60U	HH-60U		No

Model:	MULTI		
P-3a Individual Modifications			
Modification Number	Modification Title		Applies to Multiple Models
8733	Battlefield ABN Comm Node (BACN)		No

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

Model:	MQ-9	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
9151	Block 5	No
9152	MQ-9 Field	No
9154	Lynx SAR	No
9155	GCS Blk 30	No
9159	R&M enhancements	No
9164	Extended Range MQ-9	No
9167	MQ-9 Upgrade	No
1	MQ-9 Low Cost Mods	No

Model:	C-40B	
Modification P-40a Aggregated Items Title:	Senior Leader C3, System - Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
C-40 - SLC3SA	C-40 - SLC3SA	Yes

Model:	C	
Modification P-40a Aggregated Items Title:	Senior Leader C3, System - Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
C-40 - SLC3SA	C-40 - SLC3SA	Yes

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

Model:	VC-25A		
Modification P-40a Aggregated Items Title:	Senior Leader C3, System - Aircraft		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
VC-25A - SLC3SA	VC-25A - SLC3SA	No	

Model:	C-32A		
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
1	C-32 - SLC3SA	No	

Model:	CV-22		
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
8791	Block 20 V2	No	
1	Low Cost Modifications	No	

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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										
LINK 16/CID/IFR	5.103	0.203	0.203	0.213	-	0.213	0.216	0.219	0.222	0.227
B-2 Flex Strike Phase 1	28.624	2.172	-	-	-	-	-	-	-	-
B61-12 Integration	39.549	-	-	-	-	-	-	-	-	-
MGUE	22.146	1.096	0.314	4.907	-	4.907	-	-	-	-
Crash Survivable Memory Unit (CSMU)	-	-	1.568	1.594	-	1.594	0.537	0.464	1.735	-
B-2 GBU-57 MOP Integration	21.494	-	-	-	-	-	-	-	-	-
Common Very Low Frequency Terminal	61.136	-	-	-	-	-	-	-	-	-
B-2 Low Cost Engine Modifications	17.399	0.749	0.947	1.056	-	1.056	0.801	0.817	0.829	0.847
Low Cost Modifications	20.192	0.640	0.837	0.946	-	0.946	0.685	0.697	0.708	0.724
CITS UPGRADE	124.162	1.614	3.821	4.707	-	4.707	-	-	-	-
GPS M-Code	-	-	-	-	-	-	-	15.514	15.446	15.474
B-1 TRAINING SUPPORT	4.337	0.800	0.070	0.101	-	0.101	0.500	0.509	0.517	0.528
LAPTOP CONTROLLED TARGETING POD	89.563	-	-	-	-	-	-	-	-	-
IFF Mode 5/S ADS-B	3.801	0.472	5.522	-	-	-	-	-	-	-
Low Cost Modifications	5.637	0.046	0.001	0.001	-	0.001	-	-	-	-
B-52 Anti-Skid Replacement	22.306	0.567	-	-	-	-	-	-	-	-
AETC Trainers (B-52)	14.464	0.226	0.389	0.560	-	0.560	2.742	2.793	2.837	2.898
B-52 Radar Modernization	-	-	-	-	-	-	115.470	209.485	239.992	244.258
B-52 WST AR Upgrade Trainer	0.855	-	-	-	-	-	-	-	-	-
B-52 Low Cost Improvements	7.071	2.441	6.525	0.528	-	0.528	2.575	2.622	2.675	2.730

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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
B-52 CERP	-	-	-	-	-	-	-	230.402	694.039	706.129
B-52 Quad Crew Initiative	-	-	-	-	-	-	27.552	41.718	42.808	64.461
Advanced Extremely High Frequency (AEHF)	-	-	-	-	-	-	16.850	47.850	51.700	64.788
Airspace Compliance	-	-	-	-	-	-	-	28.480	28.416	55.276
Other Mods	21.765	0.470	0.476	0.485	-	0.485	0.485	0.501	0.511	0.500
LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130	15.685	-	-	-	-	-	-	-	-	-
LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17	249.502	9.999	0.000	0.015	-	0.015	0.501	9.380	7.050	7.492
LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5	53.073	-	-	0.082	-	0.082	0.100	0.123	0.100	0.100
LAIRCM CFIN	-	7.500	-	-	-	-	-	-	-	-
Large Aircraft Infrared Countermeasures	-	-	-	19.000	-	19.000	3.000	14.900	5.128	4.531
MODE S/5	14.520	0.980	-	-	-	-	-	-	-	-
ONBOARD OXYGEN GENERATING SYSTEM (OBOGS)	29.021	4.700	9.500	1.000	-	1.000	1.000	1.000	-	-
A-10 Conversion Fuel Tanks	8.700	-	-	-	-	-	-	-	-	-
Central Interface Control System (CICS)	-	-	-	-	-	-	-	-	46.125	-
A-10 High Resolution Display System (HRDS)	5.763	0.500	20.173	1.000	0.000	1.000	1.000	1.000	1.000	-
3-Dimensional Audio (3DA)	1.000	5.300	9.300	1.000	-	1.000	1.000	1.000	1.000	-
SDB-1	3.200	-	4.400	-	-	-	-	-	-	-
Low Cost Modifications	-	-	2.000	-	-	-	-	-	-	-
F-15 C/D Secondary Power System (SPS)	7.492	-	-	-	-	-	-	-	-	-
:Advanced Display Core Processor, ADCP II-C	179.443	1.474	0.000	0.000	-	0.000	-	-	-	-
F-15C Infrared Search and Track (IRST)	125.545	0.000	0.000	0.000	-	0.000	-	-	-	-

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F-15 C/D Flight Data Recorder (FDR)	24.828	-	-	-	-	-	-	-	-	-
F-15E Flight Data Recorder (FDR)	142.473	-	-	-	-	-	-	-	-	-
F-15C/D APG-63(V)3 radar upgrade	1,356.639	-	-	-	-	-	-	-	-	-
F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM	104.524	-	-	-	-	-	-	-	-	-
AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	7.943	0.103	0.175	0.246	-	0.246	-	-	-	-
F-15C/D IFF Mode 5	51.533	-	-	-	-	-	-	-	-	-
F-15E IFF MODE 5	61.338	2.080	0.177	0.168	-	0.168	-	-	-	-
F-15C/D Link 16 Cryptographic Modernization	0.002	-	-	-	-	-	-	-	-	-
F-15C/D Beyond Line Of Sight Communications	54.428	-	-	-	-	-	-	-	-	-
F-15C Passive Attack Sensor System	28.577	-	-	-	-	-	-	-	-	-
5th to 4th Gen Gateway	3.698	-	-	-	-	-	-	-	-	-
F-15C MIDS JTRS	68.340	8.305	-	-	-	-	-	-	-	-
F-15 C/D Cabin Pressure Indicator	2.773	-	-	-	-	-	-	-	-	-
F-15 E Cabin Pressure Indicator	15.893	-	-	-	-	-	-	-	-	-
F-15E APG-82(V)1 Common Config	49.803	12.000	4.954	-	-	-	-	-	-	-
F-15E SATCOM UON	17.700	-	-	-	-	-	-	-	-	-
F-15E B61 A/C Umbilical	0.542	-	-	-	-	-	-	-	-	-
F-15C Simulator Upgrade	15.000	-	-	-	-	-	-	-	-	-
F-15C/D APG-63(V)3 Common Config	5.297	-	0.896	0.037	-	0.037	-	-	-	-
F-15E M Code	-	-	-	-	-	-	-	-	16.493	16.891
LOW COST RETROFIT MODS	7.267	0.001	-	-	-	-	-	-	-	-
Low Cost Modifications	5.790	-	0.001	0.008	-	0.008	-	-	-	-

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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
Aggressors Update	8.408	3.131	0.000	-	0.000	0.000	-	-	-	-
AIFF MODE 5	0.273	-	13.088	3.000	-	3.000	-	-	-	-
M-Code	-	-	-	-	-	-	-	-	78.710	78.556
JHMCS	-	-	-	0.160	-	0.160	-	-	-	-
RFC	-	-	-	0.415	-	0.415	-	-	-	-
Heads-Up Display (HUD)	-	-	20.000	-	-	-	-	-	-	-
Anti Jam	5.000	-	-	-	-	-	-	-	-	-
Missile Warning Systems	12.000	-	-	-	-	-	-	-	-	-
Link 16 Crypto	0.139	-	-	-	-	-	-	-	-	-
Digital Radar Warning Receiver (RWR)	0.000	16.187	-	0.000	-	0.000	0.000	0.000	0.000	0.000
AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	117.703	0.487	0.840	1.204	-	1.204	5.899	6.008	6.107	6.240
F-16 TRAINING SYSTEMS	20.994	42.746	6.492	1.089	-	1.089	0.738	0.742	0.746	0.750
Full Combat Mission Training	3.128	-	-	0.000	-	0.000	0.000	-	-	-
Low Cost Modifications	11.760	0.817	0.146	0.151	-	0.151	0.257	0.189	0.830	0.850
F119 Engine Modifications	88.550	9.009	3.078	2.760	-	2.760	11.995	4.883	3.077	3.610
Structures Retrofit Plan	275.192	-	-	-	-	-	-	-	-	-
Trainers Modernization	125.141	7.037	16.888	4.239	-	4.239	12.285	4.950	11.934	4.879
Crypto Modernization	16.479	-	-	-	-	-	-	-	-	-
Viability	-	-	-	-	-	-	-	88.103	118.702	170.326
Low Drag Tanks and Pylons	-	-	-	-	-	-	43.815	84.572	88.215	127.704
C-5 Replace Multifunctional Co	-	-	-	-	-	-	-	38.427	25.909	27.845
C-5 Fleet Blk Upgrade 01	13.093	-	-	-	-	-	-	-	-	-

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C-5 Mission Systems Equipment- Lavatory	29.146	12.866	0.638	2.366	-	2.366	5.161	5.161	1.240	-
C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM)	40.785	26.940	-	1.670	-	1.670	4.991	-	-	-
C-5 Training Systems (Training Mods)	-	-	7.848	3.633	-	3.633	-	-	-	-
Low Cost Modifications	0.000	-	-	0.100	-	0.100	3.420	5.000	5.000	5.000
Pylon Stub FFLZ, FF, Translating Fairing	94.544	0.948	0.627	-	-	-	-	-	-	-
ELT Frequency Change	5.182	-	-	-	-	-	-	-	-	-
MFOQA	14.070	-	-	-	-	-	-	-	-	-
IFF GATM	124.543	0.050	-	-	-	-	-	-	-	-
Automatic Dependent Surveillance - Broadcast Out (ADS-B Out)	83.887	-	-	-	-	-	-	-	-	-
Filter Fire Mitigation	1.870	-	1.780	2.340	-	2.340	2.580	2.110	2.620	2.140
Fixed Installation Satellite Antenna (FISA)	7.079	0.000	-	-	-	-	-	-	-	-
C-17 Simulator Lateral Motion Maneuver Enhancement	1.438	-	-	-	-	-	-	-	-	-
C-17 Visual System Field of View	1.008	-	-	-	-	-	-	-	-	-
C-17 Training System (Other Mods)	4.599	7.728	9.585	2.980	-	2.980	1.180	2.020	1.909	2.660
C-17 Training System (Training Mods)	-	-	-	9.112	-	9.112	-	-	-	-
Low Cost Modifications	3.246	0.141	2.000	0.100	-	0.100	0.100	0.100	0.100	0.001
WIDEBAND SATCOM	-	12.985	-	-	-	-	-	-	-	-
CNS/ATM Compliance	17.606	-	-	-	-	-	-	-	-	-
SAT 906	-	-	5.984	4.320	-	4.320	-	-	-	-
SERVICE BULLETINS	0.100	-	-	1.000	-	1.000	-	-	-	-
Low Cost Modifications	0.698	-	-	0.742	-	0.742	-	-	-	-
Canopy Fracture Initiation System	1.666	0.103	-	-	-	-	-	-	-	-

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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
Avionics Upgrades FAA Compliance	43.059	2.496	0.203	-	-	-	-	0.000	-	-
Aircrew Training Device (ATD) Modernization	37.842	0.039	-	0.600	-	0.600	1.944	-	-	-
Reliability & Maintainability (R&M) Safety Mods	-	-	-	-	-	-	0.100	0.100	0.100	0.100
Avionics Modernization	-	-	-	-	-	-	-	155.303	412.277	144.443
SERVICE BULLETINS	-	-	-	-	-	-	0.100	0.100	0.100	0.100
Low Cost Modifications	3.545	1.950	3.655	-	-	-	1.106	1.100	1.100	1.100
Crew Relief Station Replacement	0.282	-	-	-	-	-	-	-	-	-
Low Cost Modifications	2.969	0.001	-	0.100	-	0.100	0.100	0.132	0.136	0.139
T-38 A/B ADS-B Out	8.269	-	-	-	-	-	-	-	-	-
T-38 Canopy	0.237	3.480	1.543	1.300	-	1.300	-	-	-	-
T-38A/B ESUP II	-	5.000	-	-	-	-	-	-	-	-
LOW COST SAFETY MODIFICATIONS	0.034	-	0.005	0.005	-	0.005	0.005	0.005	0.005	0.005
Low Cost Modifications	0.049	-	0.006	4.666	-	4.666	5.776	5.886	6.006	3.706
C-130 8-Bladed Propeller Upgrade	251.004	180.000	151.000	-	-	-	-	-	-	-
C-130 ALR-69A Radar Warning Receiver (RWR)	36.000	-	-	-	-	-	-	-	-	-
C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	688.007	-	-	0.000	-	0.000	-	19.365	35.275	57.507
MOD V IFF	42.100	-	-	-	-	-	-	-	-	-
C-130 CRASHWORTHY LOADMASTER SEAT	1.853	-	-	-	-	-	-	-	-	-
C-130 Aux Hyd Pump	16.599	-	-	-	-	-	-	-	-	-
C-130H Avionics Modernization Program (AMP) Increment 1	91.128	-	-	-	-	-	-	-	-	-
T-56 3.5 Engine Mod	340.000	79.000	79.000	-	-	-	-	-	-	-
Onboard Fire Incident Response Equipment	149.967	-	0.100	0.100	-	0.100	-	-	-	-

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HC-130P/N Variable Speed Drogue (VSD)	1.410	-	-	-	-	-	-	-	-	-
Electronic Propeller Control System (EPCS)	141.770	-	-	-	-	-	-	-	-	-
In-Flight Propeller Balancing System (IPBS)	1.500	-	-	-	-	-	-	-	-	-
C-130H Simulator	40.675	-	7.128	4.485	-	4.485	0.000	-	-	-
AFSOC C-130 Mods	22.642	-	-	-	-	-	-	-	-	-
C-130H MUOS	-	-	-	-	-	-	-	10.182	10.417	10.742
MAFFS	-	4.600	20.000	-	-	-	-	-	-	-
LOW COST SAFETY MODIFICATIONS	3.034	-	-	-	-	-	-	-	-	-
HC-130 Low Cost Mods	1.907	-	-	-	-	-	-	-	-	-
MISC SIMULATOR UPDATES	0.703	-	-	-	-	-	-	-	-	-
Low Cost Modifications	12.867	-	1.839	1.792	-	1.792	1.926	1.958	1.977	1.904
Avionics System and Structural Modifications	32.618	0.346	0.196	0.165	-	0.165	-	0.152	-	-
Wind Gust Brake	39.849	-	-	-	-	-	-	-	-	-
WST Threat Generators	0.796	5.942	-	-	-	-	-	-	-	-
Communication Modernization	-	-	-	-	-	-	-	19.622	19.700	19.934
Low Cost Modifications	10.860	0.410	0.200	0.200	-	0.200	0.100	0.200	0.200	0.200
VOR/ILS ANTENNAE	9.286	0.001	0.001	0.001	-	0.001	-	-	-	-
ADS-B	14.019	-	-	-	-	-	-	-	-	-
Real Time in the Cockpit (RTIC)	44.400	-	-	4.678	-	4.678	-	-	-	-
LOW COST SAFETY MODIFICATIONS	0.050	0.025	0.025	0.025	-	0.025	0.025	0.025	0.025	0.025
Low Cost Modifications	14.474	1.995	1.995	4.995	-	4.995	1.995	1.995	1.995	4.995
COMPASS CALL	36.366	11.300	-	-	-	-	-	-	-	-
CONSTANT PHOENIX	216.227	-	-	-	-	-	-	-	-	-

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BLOCK 40/45 UPGRADE	658.246	-	-	-	-	-	-	-	-	-
Communication Networking Upgrade (CNU)	2.879	24.429	5.418	1.000	-	1.000	-	-	-	-
AWACS Mode 5 Acceleration	1.907	0.823	1.068	-	-	-	-	-	-	-
NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF)	56.833	-	-	-	-	-	-	-	-	-
AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	9.125	0.700	0.700	0.165	-	0.165	0.798	0.798	0.811	0.829
RM&A Mod	22.622	0.320	-	-	-	-	-	-	-	-
VERTICAL STABILIZER AND RUDDER	1.816	-	-	-	-	-	-	-	-	-
IP-enabled Capability (IPEC)	112.772	10.747	17.246	-	-	-	-	-	-	-
LOW COST MOD - AIRFRAME	6.447	1.999	0.999	0.250	-	0.250	-	-	-	-
LOW COST MOD - AVIONICS & MISSION SYSTEMS	6.447	1.999	0.999	0.250	-	0.250	-	-	-	-
Low Cost Mod - Communications	-	1.999	0.999	0.250	-	0.250	-	-	-	-
Low Cost Mod - Human Systems	-	1.999	0.999	0.250	-	0.250	-	-	-	-
Survivable SHF	-	-	1.556	1.651	-	1.651	9.593	27.600	31.649	32.335
MUOS	3.307	0.233	4.559	-	-	-	-	-	-	-
AEHF Compatible Terminal/PNVC	21.489	16.152	9.790	1.089	-	1.089	2.769	2.819	2.866	2.928
Low Frequency Transmit System (LFTS)	112.483	20.039	-	-	-	-	-	-	-	-
SERVICE BULLETINS	12.931	5.726	1.186	1.243	-	1.243	6.266	6.419	6.558	6.743
Low Cost Modifications	14.330	1.990	1.990	1.990	-	1.990	1.990	1.990	1.990	1.990
Distributed Mission Ops Center (DMOC)	4.029	-	-	-	-	-	-	-	-	-
JSTARS OCO Requirements	13.000	-	-	-	-	-	-	-	-	-
SATCOM/MUOS Radios	-	7.601	7.601	-	-	-	-	-	-	-
JSTARS Re-engining	20.000	-	-	-	-	-	-	-	-	-

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Control Display Unit (CDU)	31.744	-	-	-	-	-	-	-	-	-
Navigation System Upgrade (NSU)	66.790	1.310	-	-	-	-	-	-	-	-
Multi-function Color Display	45.911	4.210	1.600	2.310	-	2.310	0.200	-	-	-
MODE 5	34.410	3.624	0.310	0.246	-	0.246	0.200	-	-	-
CSAR Avionics/Electrical Upgrade	18.361	0.160	-	-	0.000	0.000	-	-	-	-
HH-60 OLR Mission Modifications	465.364	1.710	0.570	1.000	-	1.000	0.800	-	-	-
Block 162	51.790	0.250	-	-	-	-	-	-	-	-
DVE Sensor	29.766	9.900	-	-	-	-	-	-	-	-
HH-60 DATALINKS	28.389	3.344	-	-	-	-	-	-	-	-
HH-60G Communication Suite Control Integration	5.490	-	-	-	-	-	-	-	-	-
Load Stabilizers	-	-	5.370	-	-	-	-	-	-	-
Low Cost Modifications	8.522	0.120	2.429	1.224	-	1.224	0.168	0.006	-	-
LAIRCM Updates	-	-	-	0.515	-	0.515	0.000	-	-	-
MC-Low Cost Modifications	-	-	-	0.050	-	0.050	-	-	-	-
Full Combat Mission Training	76.404	-	-	0.000	-	0.000	0.000	0.000	-	-
MAF Training	33.786	16.505	0.097	0.062	-	0.062	0.104	0.107	0.108	0.110
ATP upgrade Legacy to SE	136.078	25.926	0.227	-	-	-	-	-	-	-
ATP-SE Technology Insertion	100.997	21.521	14.591	-	-	-	-	-	-	-
DAS000 (ROBE)	10.400	-	-	-	-	-	-	-	-	-
Counterdrug USSOUTHCOM Support	1.200	-	-	-	-	-	-	-	-	-
MISCELLANEOUS LOW COSTS MODS (Combat Developments)	147.551	0.154	0.154	0.096	-	0.096	0.165	0.169	0.170	0.173
HH-60U	5.508	1.897	1.861	1.133	-	1.133	1.917	1.953	1.985	2.029

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C-40 - SLC3SA	-	-	3.736	3.105	-	3.105	3.104	4.116	4.200	9.070
VC-25A - SLC3SA	-	-	0.098	0.101	-	0.101	0.101	0.101	-	-
Exhibit P-3a										
B-2 Trainer System Upgrade	52.712	6.465	6.573	7.009	0.000	7.009	16.638	1.134	1.154	1.179
LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS	72.681	19.194	16.407	19.330	0.000	19.330	21.217	11.869	12.093	12.324
B-2 Adaptable Communications Suite (ACS)	13.937	0.300	0.300	17.535	0.000	17.535	28.895	26.386	32.465	33.168
B-2 DMS / Displays	0.000	0.000	0.000	38.114	0.000	38.114	17.574	3.669	3.309	0.014
IFF Mode 5/S	0.000	0.000	2.795	16.048	0.000	16.048	10.604	0.000	0.000	-
Fully Integrated Data Links	411.201	3.655	4.781	9.942	0.000	9.942	0.000	-	-	-
VERTICAL SITUATION DISPLAYS	292.106	3.263	6.234	7.248	0.000	7.248	0.000	-	-	-
MIDS-JTRS	0.000	7.975	6.977	6.595	0.000	6.595	0.000	0.000	0.000	-
Radio Crypto Compliance	0.000	0.000	0.000	7.719	0.000	7.719	15.239	2.782	2.204	0.464
B-52 Combat Network Communications Technology	620.025	0.000	15.737	17.015	0.000	17.015	0.000	-	-	-
Bomber Tactical Data link	11.934	14.377	15.841	32.357	0.000	32.357	29.159	27.100	12.188	7.400
GPS-IU Replacement	0.536	0.000	7.863	22.827	0.000	22.827	21.700	0.600	0.000	0.000
B-52 Crypto Modernization	-	0.000	3.452	37.567	0.000	37.567	33.662	23.270	5.240	4.740
B-52 VLF/LF Modernization	0.000	0.000	20.137	16.515	0.000	16.515	26.240	5.700	6.200	3.200
LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J	191.824	38.821	57.001	6.189	0.000	6.189	1.859	6.973	8.250	8.850
A01000 Portable Automatic Test Set 70 A (PATS-70A)	-	0.000	0.000	10.500	0.000	10.500	6.500	0.000	0.000	0.000
A-10 Wing Replacement Program	362.061	99.863	0.044	36.300	0.000	36.300	61.909	47.975	2.533	-
A-10 Helmet Mounted Cueing System	2.060	1.300	3.004	6.300	0.000	6.300	1.300	1.300	0.000	-
ARC-210 (Capability Improvement)	8.600	18.350	32.300	18.872	0.000	18.872	12.439	28.181	1.401	0.000

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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
2ND GIGABET ETHERNET SWITCH (2GES) (Capability Improvement)	5.000	4.800	2.900	9.000	0.000	9.000	0.000	0.000	0.000	0.000
E-11 Mods	68.027	28.401	68.955	10.309	0.000	10.309	90.575	1.859	1.891	1.932
F-15E Radar Modernization Program APG-82(V)1	1,660.422	110.426	52.073	24.000	0.000	24.000	0.000	0.000	0.000	-
Advanced Display Core Processor, ADCP II-E	145.964	0.453	39.771	36.899	0.000	36.899	12.927	0.000	-	-
F-15E MIDS JTRS	61.867	20.419	39.223	28.117	0.000	28.117	10.531	8.133	37.064	3.248
F-15 C/D SLEP Longerons	34.150	6.333	25.489	32.039	0.000	32.039	0.000	0.000	0.000	0.000
F-15 F-15 E/MUOS	-	-	8.667	33.533	0.000	33.533	11.271	21.345	61.022	4.566
F-15E DTM II	0.000	0.000	7.527	39.332	0.000	39.332	0.000	0.000	0.000	0.000
MMC and Display Generator Upgrade	0.000	19.161	17.573	68.886	0.000	68.886	43.318	30.400	41.509	4.714
F-16 LEGACY STRUCTURAL SLEP	94.616	108.751	91.600	109.024	0.000	109.024	133.515	131.298	80.013	97.065
Comm Suite Upgrade	70.752	30.914	59.653	61.647	0.000	61.647	83.615	65.571	61.978	66.154
HFLCC AGCAS	44.127	25.217	17.577	28.889	0.000	28.889	0.000	0.000	0.000	0.000
Secure Mission Data Systems	-	-	-	30.000	0.000	30.000	0.000	0.000	0.000	0.000
IVEWS	-	0.000	0.000	89.751	0.000	89.751	130.547	281.975	458.837	390.260
CDU	-	-	-	10.319	0.000	10.319	0.000	0.000	0.000	0.000
MIDS-JTRS	237.913	33.093	0.000	9.779	0.000	9.779	-	-	-	-
AESA Radars	433.716	332.878	385.439	286.141	0.000	286.141	166.925	182.028	38.487	49.930
Reliability and Maintainability Program	1,515.038	72.833	160.192	101.014	0.000	101.014	93.461	94.735	96.236	97.298
Link 16	125.487	130.625	19.476	28.716	0.000	28.716	20.559	0.000	0.000	-
Mode 5 Challenge and Reply	48.596	0.000	0.000	8.730	0.000	8.730	88.567	91.954	31.770	7.109
Sensor Enhancement	20.922	138.082	208.293	589.372	0.000	589.372	486.628	382.075	413.651	425.739
Navigation Systems Hardware	0.000	0.000	0.000	29.391	0.000	29.391	35.057	46.806	62.305	33.002

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Block 3i LRIP 2-5 Upgrade	216.806	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-
Block 3F LRIP 2-5 Upgrade	9.591	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-
Block 3F LRIP 6-8 Upgrade	2.856	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-
Concurrency	819.767	78.563	8.114	1.000	0.000	1.000	16.950	13.630	13.050	0.000
Correction of Deficiencies	119.277	107.207	101.026	123.383	0.000	123.383	136.311	151.150	155.720	160.381
Block 4 Modifications	26.731	35.062	130.488	273.899	0.000	273.899	311.354	349.575	352.147	383.780
Propulsion	-	0.000	6.200	11.000	0.000	11.000	12.000	12.000	12.000	3.400
Reliability and Maintainability	-	0.000	2.100	5.100	0.000	5.100	8.500	4.500	5.500	1.858
EPAWSS F-15E	272.633	0.000	149.797	259.837	0.000	259.837	268.637	318.962	329.085	336.215
INCREMENT 3.2B	293.944	1.289	0.000	-	-	-	-	-	-	-
Mission Computer and Weather Radar	80.840	10.473	11.844	7.904	0.000	7.904	10.734	9.192	0.000	-
Distributed Mission Operations (DMO) and Mobility Air Force (MAF) Training	-	0.000	0.000	12.354	0.000	12.354	0.000	0.000	0.000	0.000
Maintenance Training Simulator	-	0.000	0.000	18.000	0.000	18.000	0.000	0.000	0.000	0.000
Replacement Heads Up Display (RHUD)	84.919	34.564	32.903	47.111	0.000	47.111	38.072	41.100	10.953	8.945
Beyond Line of Sight (BLOS)	4.102	1.367	7.754	90.366	0.000	90.366	99.631	44.988	107.553	131.085
Crew System Modernization Program	52.565	4.746	4.877	5.615	0.000	5.615	0.000	0.000	0.000	0.000
Avionics Modification	91.521	4.464	0.872	6.162	0.000	6.162	1.992	0.000	-	-
Pacer Classic III	251.382	30.641	37.121	41.402	0.000	41.402	42.277	32.385	0.000	14.800
T-38 Avionics	7.232	0.000	0.000	49.055	0.000	49.055	43.276	21.090	9.020	1.660
Talon Repair, Inspection and Maintenance	4.234	1.685	6.364	15.240	0.000	15.240	23.174	23.295	36.831	67.276
U-2 Mod	216.274	72.080	55.954	53.667	0.000	53.667	55.401	56.450	-	-
ASARS-2B Procurement for U-2	-	48.137	65.055	27.983	0.000	27.983	16.032	12.730	12.939	13.219

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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
C-130H Avionics Modernization Program (AMP) Increment 2	0.000	0.000	13.184	107.891	0.000	107.891	94.006	98.257	116.002	182.331
BLOCK 8.1	412.837	115.790	87.134	98.891	0.000	98.891	74.911	105.472	88.286	115.529
C-130J Center Wing Replacement	142.747	13.394	23.254	13.043	0.000	13.043	17.256	15.678	3.780	21.806
BLOCK 45	351.209	64.035	48.794	63.539	0.000	63.539	54.563	64.732	72.257	33.000
Rudder Position Indicator (RPI)	21.635	0.020	6.179	9.286	0.000	9.286	8.119	3.427	2.841	0.000
KC-135 AERO-I SATCOM replacement	15.989	6.274	1.782	19.243	0.000	19.243	7.269	0.100	0.000	0.000
MUOS Radios	-	-	-	25.039	0.000	25.039	18.464	28.591	21.233	62.462
COMM2 Crypto and Data	-	-	-	22.217	0.000	22.217	12.600	0.000	0.000	0.000
COMPASS CALL Baseline Modifications	575.246	169.683	195.098	16.630	0.000	16.630	144.266	93.806	101.417	193.098
COBRA BALL	38.381	12.414	12.656	13.314	0.000	13.314	13.590	13.851	14.039	14.310
RIVET JOINT	898.168	168.952	184.749	188.808	0.000	188.808	194.997	195.994	198.733	203.059
COMBAT SENT	56.941	9.966	10.191	10.706	0.000	10.706	10.912	11.122	11.273	11.491
E-3 DRAGON	218.722	62.313	62.873	11.182	0.000	11.182	4.687	0.000	0.000	0.000
AWACS Communications Integration Program (ACIP)	0.000	0.000	0.000	40.900	0.000	40.900	22.772	31.546	0.000	0.000
Common Data Link	29.749	14.436	8.711	16.610	0.000	16.610	6.516	37.339	37.954	38.776
BLOCK 40/45 BLOCK UPGRADE	837.960	47.276	24.827	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DEFENSIVE SYSTEM UPGRADE	55.589	1.800	4.200	6.040	0.000	6.040	0.850	0.000	-	-
GH Aircraft Mods	534.498	3.350	3.205	1.286	0.000	1.286	30.056	9.087	9.237	0.373
GH Ground Station Mods	15.523	-	-	-	-	-	-	-	-	-
ASIP Increment I	37.154	0.000	0.000	-	-	-	-	-	-	-
SAR	0.910	-	-	-	-	-	-	-	-	-
ASIP Install/Calibration	4.834	-	-	-	-	-	-	-	-	-

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MODE 5/ADS-B	6.267	0.000	-	-	-	-	-	-	-	-
Sensor Enhancements	29.382	0.000	0.000	-	-	-	-	-	-	-
Communication Interoperability/Enhancements	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-
HC/MC-130J Block 8.1	9.492	0.000	15.820	0.000	0.000	0.000	26.200	25.100	40.900	45.300
MC-130J Increment 2	39.379	0.000	0.285	0.015	0.000	0.015	0.000	0.000	-	-
HC-130J Common Configuration	44.809	0.574	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-
HC-130J Personnel Locator System	16.935	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-
HC-130J Situational Awareness	85.231	28.209	0.567	23.332	0.000	23.332	0.000	0.000	0.000	0.000
Wireless Intercom	10.599	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(AbMN) Airborne Mission Networking	52.047	16.771	45.195	38.698	0.000	38.698	0.000	9.988	12.433	12.686
ADS-B out Acceleration	2.175	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-
(RFCM) Radio Frequency Countermeasures	57.241	23.212	0.000	0.000	0.000	0.000	0.000	0.000	5.400	0.000
Paratroop Door	26.883	0.000	0.000	12.472	0.000	12.472	22.000	18.300	0.000	0.000
Broadband Antenna	9.400	0.000	0.000	0.000	-	0.000	-	-	-	-
HC-Communications Modernization Phase I	-	0.000	0.000	10.000	0.000	10.000	10.762	44.597	34.507	2.753
HC-Communications Modernization Phase II	-	0.000	0.000	0.000	0.000	0.000	0.000	3.540	18.292	0.000
HC Trainer Modifications	-	-	-	20.000	0.000	20.000	9.100	0.000	0.000	0.000
MC/AC-Communications Modernization Phase I	0.000	0.000	2.437	20.638	0.000	20.638	0.163	0.545	0.401	0.467
MC-130J Link 16	0.000	4.420	0.000	0.000	0.000	0.000	0.000	0.000	-	-
HC-130J Link 16	-	-	-	-	-	-	-	1.700	5.300	0.000
MC-Trainer Modifications	0.000	0.000	83.617	12.332	0.000	12.332	12.569	28.959	29.507	30.106
HC-Star XIII	-	-	-	-	-	-	29.600	47.499	56.160	0.000
HC-EO/IR Sensor Modification	-	-	-	-	-	-	11.500	0.000	0.000	0.000

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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
HC- Low Cost Modifications	8.503	3.387	0.072	0.904	0.000	0.904	1.756	5.000	5.000	0.000
ATP-TI Increment 1	-	0.000	0.000	9.476	0.000	9.476	53.374	54.351	55.243	56.439
Battlefield ABN Comm Node (BACN)	15.115	37.851	37.898	18.262	0.000	18.262	45.314	-	-	-
Block 5	76.267	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MQ-9 Field	312.274	26.244	0.275	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lynx SAR	96.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GCS Blk 30	187.522	17.648	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
R&M enhancements	83.418	7.782	4.690	4.005	0.000	4.005	0.000	0.000	0.000	0.000
Extended Range MQ-9	341.638	11.695	6.350	1.187	0.000	1.187	0.000	0.000	0.000	0.000
MQ-9 Upgrade	465.649	89.642	130.972	59.178	0.000	59.178	64.778	12.240	12.077	28.961
MQ-9 Low Cost Mods	14.570	2.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
C-32 - SLC3SA	0.000	0.000	6.104	5.220	0.000	5.220	6.735	12.297	12.248	26.435
C-37 - SLC3SA	0.000	0.000	13.616	16.358	0.000	16.358	14.835	8.263	8.228	19.165
Block 20 V2	382.311	117.397	227.963	151.027	0.000	151.027	155.562	158.323	159.288	151.769
Low Cost Modifications	23.404	1.999	2.999	1.999	0.000	1.999	1.999	4.999	4.999	4.999
Totals (Total Obligation Authority)										
Total Obligation Authority	24,902.472	3,474.346	3,806.312	4,237.803	0.000	4,237.803	4,287.640	4,874.810	5,697.713	5,549.812

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ACRONYMS

GENERAL ACRONYMS

A&AS	- Advisory & Assistance Services
ABIDES	- Automated Budget Interactive Data Environment System
ACAT	- Acquisition Category
ACTD	- Advanced Concept Technology Demonstration
AGM	- Air-to-Ground Missile
AIM	- Air Intercept Missile
AIS	- Avionics Intermediate Shop
ACMI	- Aircraft Combat Maneuvering Instrumentation
AMRAAM	- Advanced Medium-Range Air-to-Air Missile
APPN	- Appropriation
ATD	- Advanced Technology Development
BA	- Budget Activity
BES	- Budget Estimate Submission
BY	- Budget Year
C3	- Command, Control, and Communication System
CFE	- Contractor Furnished Equipment
CONOPS	- Concept of Operation
CONUS	- Continental United States
CPMS	- Comprehensive Power Management System
CPT	- Cockpit Procedures Trainer
CRA	- Continuing Resolution Authority
CTS	- Countermeasures Test Set
CY	- Current Year
ECCM	- Electronic Counter Counter-Measures
ECM	- Electronic Counter Measures
ECO	- Engineering Change Orders
EOQ	- Economic Order Quantity
ECP	- Engineering Change Proposal
EPA	- Economic Price Adjustment
EW	- Electronic Warfare
EWASIP	- Electronic Warfare Avionics Integration Support Facility
FLIR	- Forward Looking Infra Red

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FOT&E	- Follow-on Test and Evaluation
FOC	- Fully Operational Capability
FLTS	- Flight Line Test Set
FPIF	- Fixed Price Incentive Firm
FPIS	- Fixed Price Incentive Fee, Successive Targets
FY	- Fiscal Year
GANS	- Global Access Navigation & Safety
GATM	- Global Air Traffic Management
GFE	- Government Furnished Equipment
GFP	- Government Furnished Property
GPS	- Global Positioning System
GSE	- Ground Support Equipment
ICS	- Interim Contractor Support
IOC	- Initial Operating Capability
IT	- Information Technology
JUON	- Joint Urgent Operational Need
MAIS	- Major Automated Information System Program
MDAP	- Major Defense Acquisition Program
METS	- Mobile Electronic Test Stations
MYP	- Multiyear Procurement
NAVWAR	- Navigation Warfare
NMC Rate	- Not Mission Capable Rate
OCO	- Overseas Contingency Operations
OT&E	- Operational Test and Evaluation
OWRM	- Other War Reserve Material
PAGEL	- Priced Aerospace Ground Equipment List
PB	- President's Budget
PBR	- Program Budget Review
PMA	- Program Management Administration
PMC	- Procurement Method Code
PNO	- Acquisition Program Number (MDAP Codes)
PR	- Purchase Request
PRCP	- Program Resource Collection Process
PTT	- Part Task Trainer
PY	- Prior Year
R&M	- Reliability and Maintainability

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RAA	- Rapid Acquisition Authority
RDT&E	- Research, Development, Test and Evaluation
RWR	- Radar Warning Receiver
ROM	- Rough Order of Magnitude
SS	- Sole Source
SOF	- Special Operation Force
TAF	- Tactical Air Force
TCAS	- Traffic Collision Alert and Avoidance System
TEWS	- Tactical Electronic Warfare System
TISS	- TEWS Intermediate Support System
TOA	- Total Obligation Authority
WCF	- Working Capital Fund
WRM	- War Reserve Material
WST	- Weapon System Trainer
UAV	- Unmanned Aerial Vehicle
XML	- Extensible Markup Language

BASE / ORGANIZATIONAL ACRONYMS

ACC	- Air Combat Command
AETC	- Air Education & Training Command
AFCAO	- Air Force Computer Acquisition Office
AFCESA	- Air Force Civil Engineering Support Agency
AFCIC	- AF Communications & Information Center
AFCSC	- Air Force Cryptologic Service Center
AFESC	- Air Force Engineering Services Center
AFGWC	- Air Force Global Weather Central
AFIT	- Air Force Institute of Technology
AFLCMC	- Air Force Life Cycle Management Center
AFMC	- Air Force Materiel Command
AFMETCAL	- Air Force Metrology and Calibration Office
AFMLO	- Air Force Medical Logistics Office
AFOSI	- Air Force Office of Special Investigation
AFOTEC	- Air Force Operational Test & Evaluation Center
AFPC	- Air Force Personnel Center
AFPSL	- AF Primary Standards Lab

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AFR	- Air Force Reserve
AFSOC	- AF Special Operations Command
AFSPC	- Air Force Space Command
AIA	- Air Intelligence Agency
ALC	- Air Logistics Center
AMC	- Air Mobility Command
ANG	- Air National Guard
ASC	- Aeronautical Systems Center
AETC	- Air Education Training Command
AU	- Air University
AWS	- Air Weather Service
CIA	- Central Intelligence Agency
DGSC	- Defense General Support Center
DLA	- Defense Logistics Center
DOE	- Department of Energy
DPSC	- Defense Personnel Support Center
DSCC	- Defense Supply Center, Columbus
DTIC	- Defense Technical Information Center
ER	- Eastern Range
ESC	- Electronic Systems Center
FAA	- Federal Aviation Agency
FBI	- Federal Bureau of Investigation
GSA	- General Services Administration
JCS	- Joint Chiefs of Staff
NATO	- North Atlantic Treaty Organization
OSD	- Office of the Secretary of Defense
PACAF	- Pacific Air Forces
USAF	- United States Air Force
USAFA	- United States Air Force Academy
USAFE	- United States Air Force Europe
USCENTCOM	- United States Central Command
USEUCOM	- United States European Command
USMC	- United States Marine Corps
USSTRATCOM	- United States Strategic Command
WP AFB	- Wright-Patterson AFB, OH

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CONTRACT METHOD / TYPE ACRONYMS

C	- Competitive
BA	- Basic Agreement
BOA	- Basic Ordering Agreement
BPA	- Blanket Purchasing Agreement
CS	- Cost Sharing
IDDQ	- Indefinite Delivery, Definite Quantity
IDIQ	- Indefinite Delivery, Indefinite Quantity
IDRT	- Indefinite Delivery, Requirements
Letter	- Letter
LH	- Labor-hour
MIPR	- Military Interdepartmental Purchase Request
MIPR-C	- Military Interdepartmental Purchase Request - Competitive
MIPR-OPT	- Military Interdepartmental Purchase Request - Option
MIPR-OTH	- Military Interdepartmental Purchase Request – Other
MIPR-SS	- Military Interdepartmental Purchase Request - Sole Source
OPT	- Option
OTH	- Other
PO	- Project Order
REQN	- Requisition
SS	- Sole Source
T&M	- Time and Materials
UCA	- Undefined Contract Action
WP	- Work Project

CONTRACTED BY ACRONYMS

11 WING	- 11th Support Wing, Washington, DC
ACC	- Air Combat Command, Langley AFB, VA
AEDC	- Arnold Engineering Development Center, Arnold AFB, TN
AAC	- Air Armament Center, Eglin AFB, FL
AEDC	- Arnold Engineering Development Center, Arnold AFB, TN
AETC	- Air Education and Training Command, Randolph AFB, TX
AFCIC	- Air Force Communications and Information Center, Washington, DC
AFCESA	- Air Force Civil Engineering Support Agency, Tyndall AFB, FL
AFFTC	- Air Force Flight Test Center, Edwards AFB, CA

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AFLCMC	- Air Force Life Cycle Management Center, Wright-Patterson AFB, OH
AFMC	- Air Force Materiel Command, Wright-Patterson AFB, OH
AFMETCAL	- Air Force Metrology and Calibration Office, Heath, Ohio
AFMLO	- Air Force Medical Logistics Office, Ft Detrick, MD
AIA	- Air Intelligence Agency, Kelly AFB, TX
AMC	- Air Mobility Command, Scott AFB, IL
ASC	- Aeronautical Systems Center, Wright-Patterson AFB, OH & Eglin AFB, FL
AFWA	- Air Force Weather Agency, Offutt AFB, NE
DGSC	- Defense General Support Center, Richmond, VA
DPSC	- Defense Personnel Support Center, Philadelphia, PA
ER	- Eastern Range, Patrick SFB, FL
ESC	- Electronic Systems Center, Hanscom AFB, MA
HSC	- Human Services Center, Brook AFB, TX
OC-ALC	- Oklahoma City Air Logistics Center, Tinker AFB, OK
OO-ALC	- Ogden Air Logistics Center, Hill AFB, UT
SMC	- Space & Missile Systems Center, Los Angeles AFB, CA
US STRATCOM	- US Strategic Command, Offutt AFB, NE
WACC	- Washington Area Contracting Center, Washington DC
WR	- Western Range, Vandenberg SFB, CA
WR-ALC	- Warner-Robins Air Logistics Center, Robins AFB, GA
AFSPC	- Air Force Space Command, Peterson AFB, CO
HQ ANG	- Headquarters, Air National Guard, Washington, DC
USAFE	- United States Air Force Europe, Ramstein AB, GE
USAFA	- United States Air Force Academy, Colorado Springs, CO

IDENTIFICATION CODES

Code "A"	- Line items of material which have been approved for Air Force service use.
Code "B"	- Line items of material that have not been approved for Service use
OBAN	- Operating Budget Account Number, 2-digit code for unit allocated funds

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft	P-1 Line Item Number / Title: B00200 / B-2A
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0101125F, 0101127F	Other Related Program Elements: 0101127F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	354.973	30.819	29.944	106.752	-	106.752	97.167	45.255	52.515	48.483	-	765.908
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	354.973	30.819	29.944	106.752	-	106.752	97.167	45.255	52.515	48.483	-	765.908
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	354.973	30.819	29.944	106.752	-	106.752	97.167	45.255	52.515	48.483	-	765.908

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The B-2 is a multi-engine, long range bomber incorporating low-observable ('stealth') technology that enables the B-2 to penetrate enemy air defenses and strike high-value targets. Specific modifications, budgeted and programmed, are below.

Funding for the exhibit is primarily in PE 0101127F (B-2 Squadrons). Some trainer efforts are funded in PE 0809731F (Training Support to Units), and other efforts are funded under PE 0207446F (Bomber Tactical Data Link).

Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft

P-1 Line Item Number / Title:
B00200 / B-2A

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0101125F, 0101127F **Other Related Program Elements:** 0101127F

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-40a***	110032 / LINK 16/CID/IFR (Capability Improvement)				- / 5.103	- / 0.203	- / 0.203	- / 0.213	- / -	- / 0.213
P-40a***	110054 / B-2 Flex Strike Phase 1 (Capability Improvement)				- / 28.624	- / 2.172	- / -	- / -	- / -	- / -
P-40a***	110056 / B61-12 Integration (Capability Improvement)				- / 39.549	- / -	- / -	- / -	- / -	- / -
P-40a***	110057 / MGUE (Capability Improvement)				- / 22.146	- / 1.096	- / 0.314	- / 4.907	- / -	- / 4.907
P-40a***	110062 / Crash Survivable Memory Unit (CSMU) (Capability Improvement)				- / -	- / -	- / 1.568	- / 1.594	- / -	- / 1.594
P-40a***	110065 / B-2 GBU-57 MOP Integration (Capability Improvement)				- / 21.494	- / -	- / -	- / -	- / -	- / -
P-40a***	8882 / Common Very Low Frequency Terminal (Capability Improvement)				- / 61.136	- / -	- / -	- / -	- / -	- / -
P-40a***	99999U / B-2 Low Cost Engine Modifications (Reliability & Maintainability)				- / 17.399	- / 0.749	- / 0.947	- / 1.056	- / -	- / 1.056
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 20.192	- / 0.640	- / 0.837	- / 0.946	- / -	- / 0.946
P-3a	110031 / B-2 Trainer System Upgrade (Capability Improvement)		A		- / 52.712	- / 6.465	- / 6.573	- / 7.009	- / 0.000	- / 7.009
P-3a	110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS (Reliability & Maintainability)		A		- / 72.681	- / 19.194	- / 16.407	- / 19.330	- / 0.000	- / 19.330
P-3a	110043 / B-2 Adaptable Communications Suite (ACS) (Capability Improvement)		A		- / 13.937	- / 0.300	- / 0.300	- / 17.535	- / 0.000	- / 17.535
P-3a	110044 / B-2 DMS / Displays (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 38.114	- / 0.000	- / 38.114
P-3a	110061 / IFF Mode 5/S (Capability Improvement)		B		- / 0.000	- / 0.000	- / 2.795	- / 16.048	- / 0.000	- / 16.048
P-40	Total Gross/Weapon System Cost				- / 354.973	- / 30.819	- / 29.944	- / 106.752	- / -	- / 106.752

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-40a***	110032 / LINK 16/CID/IFR (Capability Improvement)				- / 0.216	- / 0.219	- / 0.222	- / 0.227	- / -	- / 6.606
P-40a***	110054 / B-2 Flex Strike Phase 1 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 30.796
P-40a***	110056 / B61-12 Integration (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 39.549
P-40a***	110057 / MGUE (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 28.463
P-40a***	110062 / Crash Survivable Memory Unit (CSMU) (Capability Improvement)				- / 0.537	- / 0.464	- / 1.735	- / -	- / -	- / 5.898
P-40a***	110065 / B-2 GBU-57 MOP Integration (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 21.494
P-40a***	8882 / Common Very Low Frequency Terminal (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 61.136
P-40a***	99999U / B-2 Low Cost Engine Modifications (Reliability & Maintainability)				- / 0.801	- / 0.817	- / 0.829	- / 0.847	- / -	- / 23.445
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 0.685	- / 0.697	- / 0.708	- / 0.724	- / -	- / 25.429
P-3a	110031 / B-2 Trainer System Upgrade (Capability Improvement)		A		- / 16.638	- / 1.134	- / 1.154	- / 1.179	- / -	- / 92.864

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft	P-1 Line Item Number / Title: B00200 / B-2A

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0101125F, 0101127F	Other Related Program Elements: 0101127F
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Line Item MDAP/MAIS Code: N/A

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	110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS (Reliability & Maintainability)		A		- / 21.217	- / 11.869	- / 12.093	- / 12.324	- / -	- / 185.115
P-3a	110043 / B-2 Adaptable Communications Suite (ACS) (Capability Improvement)		A		- / 28.895	- / 26.386	- / 32.465	- / 33.168	- / -	- / 152.986
P-3a	110044 / B-2 DMS / Displays (Capability Improvement)		B		- / 17.574	- / 3.669	- / 3.309	- / 0.014	- / -	- / 62.680
P-3a	110061 / IFF Mode 5/S (Capability Improvement)		B		- / 10.604	- / 0.000	- / 0.000	- / -	- / -	- / 29.447
P-40	Total Gross/Weapon System Cost				- / 97.167	- / 45.255	- / 52.515	- / 48.483	- / -	- / 765.908

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod 110044, B-2 DMS / Displays, is a new start.

 See individual P-3A's for FY23 PB Budget justification

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110031 / B-2 Trainer System Upgrade

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	52.712	6.465	6.573	7.009	0.000	7.009	16.638	1.134	1.154	1.179	-	92.864
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	52.712	6.465	6.573	7.009	0.000	7.009	16.638	1.134	1.154	1.179	-	92.864
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	52.712	6.465	6.573	7.009	0.000	7.009	16.638	1.134	1.154	1.179	-	92.864

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The B-2 Training System upgrade program ensures concurrency with the aircraft, provides for the evolution of the B-2 Training System as dictated by technology, global threat, and national security realities, and enables the B-2 anti-access/area denial and global strike mission. The B-2 Training System provides initial qualification, proficiency, continuation, re-qualification, mission rehearsal, and upgrade training for B-2 aircrew, maintainers, and weapons loaders. It includes, but is not limited to, the following training elements at Whiteman AFB: three Weapon System Trainers (WSTs) with instructor-operator stations, four Cockpit Procedure Trainers (CPTs), a Weapons Loading Trainer (WLT); a Crew Escape System Maintenance Trainer (CESMT); a Flight Control System Trainer (FCST); a Mission Viewing Room (MVR); and a Training System Support Center (TSSC). The B-2 Training System also includes five maintenance training classrooms each consisting of a Computerized Maintenance Training System (CMTS), six computer-based training (CBT) Weapon System Training Aids (WSTAs), and an instructor operator station.

The B-2 Training System upgrade effort includes, but is not limited to, updates to training device hardware and computers, simulation software, courseware lessons and academics materials, instructional system design architectures, engineering drawings, and system documentation not driven by a funded aircraft modification. These upgrades are ongoing and necessary to ensure concurrent, relevant, and realistic training while providing the combat fidelity necessary to train operational and warfighter employment requirements, preserving precious flight hours, avoiding 30-40 hour on-aircraft training sorties or committing an aircraft to maintenance and weapons loading training negatively affecting aircraft availability. Upgrades include, but are not limited to, updates to threat systems parametric and order of battle information, updates to the communications suite, upgrades of radar emulation components and capabilities in the WSTs/Mission Trainers, updates of display systems and subsystems, and fidelity upgrades of the WST to more precisely resemble air refueling and take-off/landing procedures experienced in the jet. Additional improvements include updates to courseware and simulation associated with nuclear and conventional guided weapons delivery, expanded crypto keyfill training, upgrade of the electronic combat environment threat database. Improvements will also include expanded "freeplay" capability on the CPTs and CMTSS, upgrade of the WST simulation to provide weapons as powered up upon completion of initial conditions, upgrade of the current Defensive Management System simulation and the alternative/emergency procedures courseware, and upgrade of the Suppressor tool. Upgrades may also include Virtual Reality/Augmented Reality training devices and associated software to enhance realism and effectiveness of training. Additionally provides a Mission Director Room, including providing two-way communication (voice and text), providing the ability to prepare scripted events and/or input real-time modifications to the virtual environment (i.e. weather, players, etc.), the means to preview missions, observe live events, and review recorded events, and upgrade of the simulation and computational processors as necessary. Efforts also include upgrades to the Mission Generation System, allowing faster generation of WST missions, among other benefits, and efforts to enhance training fidelity and realism. Additionally, Diminishing Manufacturing Sources efforts to include removal of end-of-life software/hardware within simulators systems and move to a modular, common open systems architecture that is sustainable and cyber-resilient. Implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative. Life of Type buys may be implemented when appropriate to address diminishing manufacturing sources and materiel shortages for affected components and subassemblies to protect the planned production program by mitigating unplanned part redesign and re-qualification risks.

Quantities and delivery dates have not been included due to the wide variety of ongoing modification efforts to the various elements of the B-2 Training System. B-2 Training System funding includes aircraft modification funds from PE 0809731F, specifically for the Maintenance Training System. These amounts are reflected on the P3-A in the "EQUIPMENT Group B (Active)" row.

Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110031 / B-2 Trainer System Upgrade
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Milestone/Development Status

Development of B-2 Training System upgrades is a continuous process relative to the needs of each funded effort. Some efforts do not require RDT&E, while others require design and test activities. This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0101127F.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B00200 / B-2A					Modification Number / Title: 110031 / B-2 Trainer System Upgrade			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: B-2				Modification Type: Capability Improvement				Related RDT&E PEs: 0101127F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> B-2 Trainer Mods													
A Kits													
Recurring													
B-2 Trainer Mods:INSTALL KITS Group A (Active)	- / 5.889	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.889	
<i>Subtotal: Recurring</i>	- / 5.889	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.889	
B Kits													
Recurring													
B-2 Trainer Mods:EQUIPMENT Group B (Active)	- / 37.665	- / 6.465	- / 6.573	- / 7.009	- / -	- / 7.009	- / 16.638	- / 1.134	- / 1.154	- / 1.179	- / -	- / 77.817	
<i>Subtotal: Recurring</i>	- / 37.665	- / 6.465	- / 6.573	- / 7.009	- / -	- / 7.009	- / 16.638	- / 1.134	- / 1.154	- / 1.179	- / -	- / 77.817	
<i>Subtotal: B-2 Trainer Mods</i>	- / 43.554	- / 6.465	- / 6.573	- / 7.009	- / -	- / 7.009	- / 16.638	- / 1.134	- / 1.154	- / 1.179	- / -	- / 83.706	
<i>Subtotal: Procurement, All Modification Items</i>	- / 43.554	- / 6.465	- / 6.573	- / 7.009	- / -	- / 7.009	- / 16.638	- / 1.134	- / 1.154	- / 1.179	- / -	- / 83.706	
Support (All Modification Items)													
SIM/TRAINER	0 / 8.591	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 8.591	
OTHER GOVT	- / 0.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.567	
<i>Subtotal: Support</i>	0 / 9.158	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 9.158	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	52.712	6.465	6.573	7.009	0.000	7.009	16.638	1.134	1.154	1.179	-	92.864	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: B00200 / B-2A			Modification Number / Title: 110031 / B-2 Trainer System Upgrade	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 1: B-2 Trainer Mods							
Manufacturer Information							
Manufacturer Name: L3 Comm				Manufacturer Location: Binghamton, NY			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
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): Org/Intermediate					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	72.681	19.194	16.407	19.330	0.000	19.330	21.217	11.869	12.093	12.324	-	185.115
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	72.681	19.194	16.407	19.330	0.000	19.330	21.217	11.869	12.093	12.324	-	185.115
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	72.681	19.194	16.407	19.330	0.000	19.330	21.217	11.869	12.093	12.324	-	185.115

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Low Observable Signature and Supportability Modifications (LOSSM) program supports the B-2 ability to penetrate anti-access combat environments, performing missions directed by the National Command Authority while ensuring aircrew survivability. The LOSSM program reduces low observable (LO) maintenance man hours, increases aircraft availability, and maintains and improves the combat-ready LO signature for the B-2 fleet. This program includes multiple improvement projects including, but not limited to, improved LO materials (conductive gap fillers and tape, adhesives, electrically resistive materials, radar absorbing material, fastener fills, coatings, and improved processes), LO structures (radar radomes, hot trailing edges and tiles, intermediate section doors, tailpipes, windows, bay panels, permanent fasteners, exhaust pockets, gust load alleviation system, inlets, radar absorbing structures, antenna optimization, overall signature stability, and Alternate High Frequency Material expansion), and radio frequency (RF) diagnostic tools and a near-field radar evaluation system, flight line Tier One Material Inspection System, Signature Diagnostic System, Portable Laser Removal Tool, next generation Tier II and Tier III systems, Hand held Imaging Tool, Test Article 0998 optimization, LO-related special test equipment, and B-2 specific improvements/efforts to Air Force Research Laboratory's Mobile Diagnostic Laboratory).

As this program encompasses multiple projects, the number of installs will not be representative of the number of aircraft affected. Some modifications will be made to each of the 20 B-2 aircraft and other modifications will be made to related B-2 support equipment. Various lead times are required for the different modifications causing numerous contract and delivery dates. As each project completes/fields, those projects are then removed from the LOSSM portfolio.

This program is essential to B-2 Anti-Access and Global Strike mission and supports Aircraft Availability Improvement Program goals. The "Method of Implementation" for these components varies based on the teams performing these component installations. Installs occur at Depot and flight line level and include both organic or contractor field teams.

LOSSM is fielding many important modifications currently: eight Alternate High Frequency Material (AHFM) II upgrades, Pressure Sensitive Adhesive Kapton, new Upper Gust Load Alleviation (GLA) Panels, new Radar Altimeter Antennas, Signature Diagnostic System S/W upgrades, and the Advanced Signature Reduction Project 1, the most substantial signature improvement the B-2 has seen in its 30-YR history.

Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission readiness/effectiveness.

The FY 2023 funding will be used for prioritized projects in support of the continued survivability and maintainability of the B-2 fleet, including the Advanced Signature Reduction Project 1, Planned Depot Maintenance (PDM) Installs (AHFM) and Pressure Sensitive Adhesive Kapton. All LOSSM projects have been combined and are included in the Other GOVT Costs category.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS

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

The Low Observable Signature and Supportability Modification program is a small portfolio of projects that delivers capabilities monthly/annually. Development efforts continue to mature LO materials and technologies to overcome obsolescence and aging fleet issues. This program has associated Research Development Test and Evaluation funding in PE 0101127F.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Models of Systems Affected: B-2	Modification Type: Reliability & Maintainability	Related RDT&E PEs: 0101127F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> LO Upgrades												
A Kits												
Recurring												
LO Upgrades:INSTALL KITS Group A (Active)	- / 20.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.751
<i>Subtotal: Recurring</i>	- / 20.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.751
<i>Subtotal: LO Upgrades</i>	- / 20.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.751
<i>Subtotal: Procurement, All Modification Items</i>	- / 20.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.751
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 2.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.717
Data	- / 5.603	- / -	- / 2.580	- / 6.337	- / -	- / 6.337	- / 1.051	- / -	- / -	- / -	- / -	- / 15.571
OTHER GOVT	- / 25.754	- / 15.896	- / 10.481	- / 11.206	- / -	- / 11.206	- / 18.183	- / 10.684	- / 10.885	- / 11.092	- / -	- / 114.181
SUPPORT-EQUIP	- / 9.081	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.081
PMA - Other Gov't Costs	- / 8.775	- / 3.298	- / 3.346	- / 1.787	- / -	- / 1.787	- / 1.983	- / 1.185	- / 1.208	- / 1.232	- / -	- / 22.814
<i>Subtotal: Support</i>	- / 51.930	- / 19.194	- / 16.407	- / 19.330	- / -	- / 19.330	- / 21.217	- / 11.869	- / 12.093	- / 12.324	- / -	- / 164.364
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	72.681	19.194	16.407	19.330	0.000	19.330	21.217	11.869	12.093	12.324	-	185.115

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: B00200 / B-2A			Modification Number / Title: 110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 1: LO Upgrades							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
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): Org/Intermediate					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110043 / B-2 Adaptable Communications Suite (ACS)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	13.937	0.300	0.300	17.535	0.000	17.535	28.895	26.386	32.465	33.168	-	152.986
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	13.937	0.300	0.300	17.535	0.000	17.535	28.895	26.386	32.465	33.168	-	152.986
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	13.937	0.300	0.300	17.535	0.000	17.535	28.895	26.386	32.465	33.168	-	152.986

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

B-2 Communications Upgrade (formerly known only as Adaptable Communications Suite) includes multiple modernization efforts including Adaptable Communications Suite (ACS) Increment 4.0, Airborne Integrated Terminal Group (AITG) Replacement and B-2 Collaborative Combat Communication (B2C3).

The Airborne Integrated Terminal Group (AITG) replacement will deliver continued capability for Line-of-Sight (LOS) communications, both clear and secure. AITG replacement will also provide the ability to satisfy additional modifications associated with anti-jam voice due to retirement of HAVE QUICK. Modification validated by AFGSC 20-050.

Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other necessary modifications to ensure continued aircrew safety and mission effectiveness.

The Adaptable Communications Suite (ACS) provides a non-integrated avionics and communications system that allows the B-2 fleet to receive mission data, time sensitive targeting information, intelligence and weather updates, positive command and control procedures. The B-2 typically deploys from CONUS and is en route to the Area of Responsibility prior to the release of the Air Tasking Order (ATO). The Combatant Commanders and Combined Air Operations Centers require the B-2 have a robust and flexible satellite communications (SATCOM) capability - the current SATCOM is voice only. The B-2 must be able to receive mission data in-flight and receive the official ATO target list prior to going emissions quiet. Typical data passed to the B-2 includes new missions, mission changes, Electronic Order of Battle (EOB) updates, target changes, package updates, weather updates, and other critical information to B-2s en route to theater, and emerging time-sensitive targets while in theater utilizing Airborne Mission Transfer (AMT).

The ACS system consists of modified Commercial-off-the-Shelf (COTS) computer equipment, a mission data recorder, and two (2) PRC-117G radios providing satellite data communications. The computer subsystems receive continuous secure Beyond Line-of-Sight (BLOS) intelligence updates, AMT files (EOB, mission routing, target changes, etc.), secure email (updated intelligence, follow-on force report, weather updates, etc.), and solidifies command and control procedures. Displays and keyboards are located at each crew position and on the system rack to run the secure systems. Additionally, aircraft were modified with the Airborne Instrumentation System (AIS); this modification provides access to the aircraft 1553 and Defensive Management System High Speed data busses to standardize the B-2 fleet configuration. Additionally, as requirements are identified, obsolescence issues may also be addressed to ensure continued system effectiveness.

The ACS baseline is twenty operational systems for the B-2 aircraft and eleven ground stations which support deployment, training, and operational needs. Upgrades of the ACS racks are accomplished by multiple increments with multiple install schedules.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110043 / B-2 Adaptable Communications Suite (ACS)
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<p>ACS/AITG EMD Spare will be installed with Procurement funding, included in Installation schedule. AITG is a pre-MS B program, with MS B projected to occur in FY24. This will establish an Acquisition Program Baseline for AITG Production funding in FY25-FY27.</p> <p>Milestone/Development Status</p> <p>Development for AITG: Acquisition planning in progress. Development trade studies started in FY21. Current projections have Tech Maturation & Risk Reduction (TMRR) phase initiating FY22, Engineering & Manufacturing Development (EMD) phase initiating FY23, and Production & Deployment (P&D) phase initiating FY25.</p> <p>Development for ACS Increments 1 and 2 started in FY 2006 with a non-integrated tactical communications suite providing secure transmission of AMT, BLOS situational awareness, and email capabilities. Successful Operational Utility Evaluation (OUE) completed January 2010. Production of ACS Increments 1 and 2 began February 2010 and completed January 2011. Integration of the third commercial-off-the-shelf computer and Advanced GPS Receiver started in August 2011 and completed production installation in late 2012. AIS kits delivered in October 2012 and completed in August 2013.</p> <p>Development for ACS Increment 3.1 began February 2010 to add NRT Ops Recce capabilities; the OUE was completed in July 2011 with production beginning in December 2014 and completed in May 2015. Development for ACS Increment 3.2 began in July 2016 and was designed to be installed concurrently with Common VLF Received Increment 1 (CVRI1). The final install of ACS Increment 3.2 was accomplished in January 2021. Development for ACS Increment 4.0 is currently underway, and procurement of ACS 4.0 kits begins in FY 2023. ACS Increment 4.0 will replace the existing ACS radios to enable Mobile User Objective System (MUOS) SATCOM connectivity, and provide the framework for open systems architecture functionality on the platform. Future obsolescence issues will be addressed on an as needed basis.</p>		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B00200 / B-2A					Modification Number / Title: 110043 / B-2 Adaptable Communications Suite (ACS)			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: B-2				Modification Type: Capability Improvement				Related RDT&E PEs: 0101127F					
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: ACS Upgrades													
A Kits													
Recurring													
ACS Upgrades:INSTALL KITS Group A (Active)	- / 0.090	- / -	- / -	8 / 3.742	- / -	8 / 3.742	9 / 4.989	- / -	- / -	- / -	- / -	17 / 8.821	
Subtotal: Recurring	- / 0.090	- / -	- / -	- / 3.742	- / -	- / 3.742	- / 4.989	- / -	- / -	- / -	- / -	- / 8.821	
B Kits													
Recurring													
ACS Upgrades:EQUIPMENT Group B (Active)	15 / 4.824	- / -	- / -	8 / 11.239	- / -	8 / 11.239	9 / 16.498	- / -	- / -	- / -	- / -	32 / 32.561	
Subtotal: Recurring	- / 4.824	- / -	- / -	- / 11.239	- / -	- / 11.239	- / 16.498	- / -	- / -	- / -	- / -	- / 32.561	
Subtotal: ACS Upgrades	- / 4.914	- / -	- / -	- / 14.981	- / -	- / 14.981	- / 21.487	- / -	- / -	- / -	- / -	- / 41.382	
Modification Item 2 of 2: AITG													
A Kits													
Recurring													
AITG:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.608	10 / 3.811	- / -	- / -	16 / 7.419	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.608	- / 3.811	- / -	- / -	- / 7.419	
B Kits													
Recurring													
AITG:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 10.823	10 / 11.432	- / -	- / -	16 / 22.255	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.823	- / 11.432	- / -	- / -	- / 22.255	
Subtotal: AITG	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.431	- / 15.243	- / -	- / -	- / 29.674	
Subtotal: Procurement, All Modification Items	- / 4.914	- / -	- / -	- / 14.981	- / -	- / 14.981	- / 21.487	- / 14.431	- / 15.243	- / -	- / -	- / 71.056	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 0.659	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.659	
Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.635	- / -	- / -	- / -	- / -	- / 1.635	
ICS-Labor	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.166	- / 0.545	- / 1.076	- / 1.493	- / -	- / 3.280	
Data	- / 4.318	- / 0.138	- / 0.153	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.609	
OTHER GOVT	- / 0.273	- / 0.088	- / 0.091	- / 11.074	- / -	- / 11.074	- / 0.411	- / 6.606	- / 11.174	- / 26.156	- / -	- / 45.873	
PMA - Other Gov't Costs	- / 1.215	- / 0.016	- / -	- / 11.480	- / -	- / 11.480	- / 2.440	- / 2.230	- / 2.740	- / 2.800	- / -	- / 12.921	
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.789	- / 0.606	- / -	- / -	- / -	- / 1.395	
SUPPORT-EQUIP	15 / 2.558	- / 0.058	- / 0.056	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.672	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110043 / B-2 Adaptable Communications Suite (ACS)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Models of Systems Affected: B-2	Modification Type: Capability Improvement	Related RDT&E PEs: 0101127F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Support</i>	15 / 9.023	- / 0.300	- / 0.300	- / 2.554	- / -	- / 2.554	- / 5.441	- / 9.987	- / 14.990	- / 30.449	- / -	15 / 73.044
Installation												
<i>Modification Item 1 of 2: ACS Upgrades</i>	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.967	9 / 1.968	- / -	- / -	- / -	18 / 3.935
<i>Modification Item 2 of 2: AITG</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.232	10 / 2.719	- / -	17 / 4.951
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.967	9 / 1.968	7 / 2.232	10 / 2.719	- / -	35 / 8.886
Total												
Total Cost (Procurement + Support + Installation)	13.937	0.300	0.300	17.535	0.000	17.535	28.895	26.386	32.465	33.168	-	152.986

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110043 / B-2 Adaptable Communications Suite (ACS)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 2: ACS Upgrades

Manufacturer Information

Manufacturer Name: Sierra Nevada	Manufacturer Location: Englewood, CO
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			Aug 2023	Aug 2024			
Delivery Dates			Aug 2024	Aug 2025			

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.967	- / -	- / -	- / -	- / -	9 / 1.967
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.968	- / -	- / -	- / -	9 / 1.968
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.967	9 / 1.968	- / -	- / -	- / -	18 / 3.935

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	2	2	2	2	-	-	-	-	-	-	-	-	0	18
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	2	2	2	2	-	-	-	-	-	-	-	-	0	18

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110043 / B-2 Adaptable Communications Suite (ACS)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 2 of 2: AITG

Manufacturer Information

Manufacturer Name: Northrup Grumman	Manufacturer Location: Palmdale, CA
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					Aug 2025	Dec 2025	
Delivery Dates					Aug 2026	Dec 2026	

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.232	- / -	- / -	7 / 2.232
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.719	- / -	10 / 2.719
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.232	10 / 2.719	- / -	17 / 4.951

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	2	3	3	2	0	17
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	2	3	3	2	0	17

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110044 / B-2 DMS / Displays

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	38.114	0.000	38.114	17.574	3.669	3.309	0.014	-	62.680
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	38.114	0.000	38.114	17.574	3.669	3.309	0.014	-	62.680
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	38.114	0.000	38.114	17.574	3.669	3.309	0.014	-	62.680

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 110044, B-2 DMS / Displays, is a new start.

The B-2 Display Modernization (BDM) program will modernize the eight primary B-2 cockpit displays. The current displays known as Multi-function Display Units (MDUs) are experiencing significant obsolescence issues that are unsustainable. Increasing failure rates and reliance on the legacy Cathode Ray Tube (CRT) technology with no industry base has led to increased cannibalization actions and degraded readiness status known as Mission Impaired Capability, awaiting Parts (MICAP).

The B-2 BDM program will deliver fully integrated MDUs. Each aircraft kit will fully replace the aging and unrepairable legacy MDUs. The program baseline includes updated display software in support of the new MDUs. During development, the engineering baseline will be finalized and four production representative kits will be procured to support integrated development/operational test and a pre-Milestone C Operational Assessment, as well as B-2 Nuclear Certification testing.

The BDM production contract will be awarded in FY23 to procure production units and spares. Aircraft modification funds will be used to procure full hardware kits, which include long lead components. Life of type buys may be implemented, when appropriate, to address diminishing manufacturing sources and materiel shortages for affected components and subassemblies to protect the planned production program by mitigating unplanned part redesign and requalification risks. Funds may be used to resolve emerging safety of flight, deficiencies, manufacturing sources, materiel shortages, and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

Milestone/Development Status

The EMD contract definitized on 17 December 2021. BDM Production contract award is targeted for FY23, with a Milestone C strategy shaped to support procurement.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B00200 / B-2A				Modification Number / Title: 110044 / B-2 DMS / Displays				
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Models of Systems Affected: B-2				Modification Type: Capability Improvement				Related RDT&E PEs: 0101127F				
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)
RDT&E PE #												
0101127F	- / -	2 / 143.768	2 / 90.561	- / 56.558	- / -	- / 56.558	- / 57.958	- / -	- / -	- / -	- / -	4 / 348.845
Procurement												
<i>Modification Item 1 of 1:</i> B-2 Displays Modernization (BDM) Equipment Group B (Active)												
B Kits												
Recurring												
B-2 Displays Modernization (BDM) Equipment Group B (Active):EQUIPMENT Group B (Active)	- / -	- / -	- / -	8 / 34.304	- / -	8 / 34.304	6 / 15.817	2 / 3.303	- / 2.993	- / -	- / -	16 / 56.417
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 34.304	- / -	- / 34.304	- / 15.817	- / 3.303	- / 2.993	- / -	- / -	- / 56.417
<i>Subtotal: B-2 Displays Modernization (BDM) Equipment Group B (Active)</i>	- / -	- / -	- / -	- / 34.304	- / -	- / 34.304	- / 15.817	- / 3.303	- / 2.993	- / -	- / -	- / 56.417
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 34.304	- / -	- / 34.304	- / 15.817	- / 3.303	- / 2.993	- / -	- / -	- / 56.417
Support (All Modification Items)												
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 3.810	- / -	- / 3.810	- / 1.757	- / 0.366	- / 0.316	- / 0.014	- / -	- / 6.263
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 3.810	- / -	- / 3.810	- / 1.757	- / 0.366	- / 0.316	- / 0.014	- / -	- / 6.263
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	38.114	0.000	38.114	17.574	3.669	3.309	0.014	-	62.680

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: B00200 / B-2A			Modification Number / Title: 110044 / B-2 DMS / Displays	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: B-2 Displays Modernization (BDM) Equipment Group B (Active)							
Manufacturer Information							
Manufacturer Name: Northrop Grumman Corp				Manufacturer Location: Palmdale, CA			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 8			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Apr 2023	Apr 2024	Apr 2025		
Delivery Dates			Dec 2023	Dec 2024	Dec 2025		
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 16		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110061 / IFF Mode 5/S

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	2.795	16.048	0.000	16.048	10.604	0.000	0.000	-	-	29.447
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	2.795	16.048	0.000	16.048	10.604	0.000	0.000	-	-	29.447
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	2.795	16.048	0.000	16.048	10.604	0.000	0.000	-	-	29.447

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The B-2 Identify Friend or Foe (IFF) Mode 5/S Program is part of B-2 Integrated Functional Capability (IFC) drop P6.5, which also includes software sustainment updates and form, fit, function hardware replacement. The IFC Process is the framework within which B-2 avionics-related improvements are designed, developed, integrated, tested, and delivered. The intent of the IFC construct is to minimize the number of different aircraft configurations in the field at any one time and to maximize aircraft availability to the operator. If unplanned content (modification or sustainment) is inserted into a defined and approved IFC, it may increase the development time of the IFC, and the programs within that IFC. IFC P6.5 is baselined off of IFC P6.4 with a fielding timeline of 1QFY23 thru 2QFY24.

The DoD established Global Air Traffic Management renamed Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) requirements in response to changes in global air traffic control procedures. Mode 5/S is a required element of Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM). Mode 5 is the DoD/NATO standard for secure combat identification and provides improved discrimination between closely spaced platforms, while reducing interference with civil air traffic control transponders enabling the B-2 fleet to accomplish its anti-access and global strike mission. Mode 5 replaced the obsolete Mode 4 combat identification. Mode S provides improved accuracy, altitude resolution and reduced interference from closely spaced aircraft through interrogation of assigned transponder addresses. Funding for this modification will be used for IFF transponder and Group A kit hardware purchases and hardware/software install/modification of the B-2 fleet, IFF related updates to B-2 training systems, and other items necessary to support IFF Mode 5/S install on the B-2 fleet. Seventeen kits are planned with procurement dollars, and the remaining three kits funded with RDT&E. The IFF transponders and Group A hardware has a 12-month lead-time from placement of order to delivery. In order to begin installs in 2Q FY23, the IFF transponders and Group A hardware must be ordered in 2Q FY22.

Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

IFF EMD Spare installed with Procurement funding, included in installation schedule. IFF Production shortfall in FY24 & FY25 has been included in the FY24 POM Submission.

Milestone/Development Status

Milestone B decision and Engineering & Manufacturing Development (EMD) contract award occurred in 4Q FY 2019 with EMD period of performance expected from 4Q FY 2019 to 2Q FY 2023. Milestone C and Production phase contract award is expected in 2Q FY 2023. Initial Production contract is being funding with FY22 3010 dollars.

Aircraft Breakdown: ACTIVE 20, RESERVE 0, ANG 0, TOTAL 20

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B00200 / B-2A				Modification Number / Title: 110061 / IFF Mode 5/S					
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: B-2A				Modification Type: Capability Improvement				Related RDT&E PEs: 0101127F					
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)	
RDT&E PE #													
0101127F	- / 23.645	- / 6.028	- / 12.309	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 41.982	
Procurement													
Modification Item 1 of 1: Airspace Compliance													
A Kits													
Recurring													
Airspace Compliance:INSTALL KITS Group A (Active)	- / -	- / -	- / -	8 / 9.084	- / -	8 / 9.084	9 / 10.112	- / -	- / -	- / -	- / -	17 / 19.196	
Subtotal: Recurring	- / -	- / -	- / -	- / 9.084	- / -	- / 9.084	- / 10.112	- / -	- / -	- / -	- / -	- / 19.196	
Subtotal: Airspace Compliance	- / -	- / -	- / -	- / 9.084	- / -	- / 9.084	- / 10.112	- / -	- / -	- / -	- / -	- / 19.196	
Subtotal: Procurement, All Modification Items	- / -	- / -	- / -	- / 9.084	- / -	- / 9.084	- / 10.112	- / -	- / -	- / -	- / -	- / 19.196	
Support (All Modification Items)													
OTHER GOVT	- / -	- / -	- / 2.522	- / 3.653	- / -	- / 3.653	- / -	- / -	- / -	- / -	- / -	- / 6.175	
GFP	- / -	- / -	- / -	- / 1.285	- / -	- / 1.285	- / -	- / -	- / -	- / -	- / -	- / 1.285	
SIM/TRAINER	- / -	- / -	- / -	- / 0.426	- / -	- / 0.426	- / -	- / -	- / -	- / -	- / -	- / 0.426	
PMA - Other Gov't Costs	- / -	- / -	- / 0.273	- / 1.600	- / -	- / 1.600	- / -	- / -	- / -	- / -	- / -	- / 1.873	
Subtotal: Support	- / -	- / -	- / 2.795	- / 6.964	- / -	- / 6.964	- / -	- / -	- / -	- / -	- / -	- / 9.759	
Installation													
Modification Item 1 of 1: Airspace Compliance	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.492	9 / 0.000	- / -	- / -	- / -	18 / 0.492	
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.492	9 / 0.000	- / -	- / -	- / -	18 / 0.492	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	2.795	16.048	0.000	16.048	10.604	0.000	0.000	-	-	29.447	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110061 / IFF Mode 5/S
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Airspace Compliance

Manufacturer Information

Manufacturer Name: Raytheon Manufacturer Location: Aberdeen Proving Grounds, MD

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 18

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

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.492	- / -	- / -	- / -	- / -	9 / 0.492
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.000	- / -	- / -	- / -	9 / 0.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.492	9 / 0.000	- / -	- / -	- / -	18 / 0.492

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	0	-	-	-	-	-	-	-	-	-	-	-	-	1	3	2	3	3	2	2	2	-	-	-	-	-	-	-	-	0	18
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	2	2	3	1	-	-	-	-	-	-	-	0	18

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft	P-1 Line Item Number / Title: B01B00 / B-1B
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0101126F	Other Related Program Elements: 0101126F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	930.807	17.825	27.406	36.313	-	36.313	15.739	18.805	18.167	16.466	0.000	1,081.528
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	930.807	17.825	27.406	36.313	-	36.313	15.739	18.805	18.167	16.466	0.000	1,081.528
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	930.807	17.825	27.406	36.313	-	36.313	15.739	18.805	18.167	16.466	0.000	1,081.528

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	2.959	0.847	0.891	-	0.891	-	-	-	-	-	4.697
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The B-1B Lancer is a swing-wing, supersonic, long-range, conventional bomber. It carries the largest payload of both guided and unguided weapons in the Air Force inventory.

The multi-mission B-1B is the backbone of America's long-range conventional bomber force and can rapidly deliver massive quantities of precision (and non-precision) weapons against any adversary, anywhere in the world, at any time.

The B-1B modernization projects alleviate aircraft obsolescence issues due to Diminishing Manufacturing Sources (DMS) while at the same time providing improved capabilities to the B-1B weapon system that require significant hardware and software development and testing.

The total B-1B inventory is 45 aircraft with an expected service life beyond 2037.

Funding for this exhibit contained in PE 0101126F

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.825	24.443	36.313	-	36.313	15.739	18.805	18.167	16.466
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	2.963	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.825	27.406	36.313	-	36.313	15.739	18.805	18.167	16.466

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft

P-1 Line Item Number / Title:
B01B00 / B-1B

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0101126F **Other Related Program Elements:** 0101126F

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-40a***	4284 / CITS UPGRADE (Service Life Extension)				- / 124.162	- / 1.614	- / 3.821	- / 4.707	- / -	- / 4.707
P-40a***	4290 / GPS M-Code (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	4291 / B-1 TRAINING SUPPORT (Capability Improvement)				- / 4.337	- / 0.800	- / 0.070	- / 0.101	- / -	- / 0.101
P-40a***	92294 / LAPTOP CONTROLLED TARGETING POD (Capability Improvement)				- / 89.563	- / -	- / -	- / -	- / -	- / -
P-40a***	92317 / IFF Mode 5/S ADS-B (Capability Improvement)				- / 3.801	- / 0.472	- / 5.522	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 5.637	- / 0.046	- / 0.001	- / 0.001	- / -	- / 0.001
P-3a	4280 / Fully Integrated Data Links (Capability Improvement)		B		- / 411.201	- / 3.655	- / 4.781	- / 9.942	- / 0.000	- / 9.942
P-3a	8971 / VERTICAL SITUATION DISPLAYS (Service Life Extension)		A		- / 292.106	- / 3.263	- / 6.234	- / 7.248	- / 0.000	- / 7.248
P-3a	92314 / MIDS-JTRS (Capability Improvement)		B		- / 0.000	- / 7.975	- / 6.977	- / 6.595	- / 0.000	- / 6.595
P-3a	92316 / Radio Crypto Compliance (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 7.719	- / 0.000	- / 7.719
P-40	Total Gross/Weapon System Cost				- / 930.807	- / 17.825	- / 27.406	- / 36.313	- / -	- / 36.313

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-40a***	4284 / CITS UPGRADE (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / 134.304
P-40a***	4290 / GPS M-Code (Capability Improvement)				- / -	- / 15.514	- / 15.446	- / 15.474	- / -	- / 46.434
P-40a***	4291 / B-1 TRAINING SUPPORT (Capability Improvement)				- / 0.500	- / 0.509	- / 0.517	- / 0.528	- / -	- / 7.362
P-40a***	92294 / LAPTOP CONTROLLED TARGETING POD (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 89.563
P-40a***	92317 / IFF Mode 5/S ADS-B (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 9.795
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 5.685
P-3a	4280 / Fully Integrated Data Links (Capability Improvement)		B		- / 0.000	- / -	- / -	- / -	- / -	- / 429.579
P-3a	8971 / VERTICAL SITUATION DISPLAYS (Service Life Extension)		A		- / 0.000	- / -	- / -	- / -	- / -	- / 308.851
P-3a	92314 / MIDS-JTRS (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 21.547
P-3a	92316 / Radio Crypto Compliance (Capability Improvement)		B		- / 15.239	- / 2.782	- / 2.204	- / 0.464	- / 0.000	- / 28.408
P-40	Total Gross/Weapon System Cost				- / 15.739	- / 18.805	- / 18.167	- / 16.466	- / 0.000	- / 1,081.528

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod 4290, GPS M-Code, is a new start.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft		P-1 Line Item Number / Title: B01B00 / B-1B
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0101126F	Other Related Program Elements: 0101126F
Line Item MDAP/MAIS Code: N/A		

Where applicable, justification for individual modifications is provided in the P-3A exhibits.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 4280 / Fully Integrated Data Links

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	411.201	3.655	4.781	9.942	0.000	9.942	0.000	-	-	-	-	429.579
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	411.201	3.655	4.781	9.942	0.000	9.942	0.000	-	-	-	-	429.579
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	411.201	3.655	4.781	9.942	0.000	9.942	0.000	-	-	-	-	429.579

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	26.262	-	-	-	-	-	-	-	-	-	-	26.262
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Fully Integrated Data Link (FIDL) is a net-centric warfare upgrade enabling full B-1B participation in joint combat and time-critical targeting operations. FIDL adds line-of-sight and beyond line-of-sight command and control (C2) connectivity through the addition of Link 16 and Joint Range Extension (JRE) data link. Modification funds will procure and install Group A and B kits for the FIDL upgrade to the B-1B. This modification provides two tactical data processors and five multi-function displays for the B-1B aft crew stations. This modification also adds an Ethernet infrastructure enabling rapid airborne re-targeting by high-speed transfer of aircraft information to all four crew stations and on-board weapons. Modification funding is being used to alleviate Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues. DMSMS activities can include, but are not limited to, life of type buy or minor redesign. Procurement modification funding will be used to establish depot repair capability and for Interim Contractor Support (ICS) during depot activation.

The Integrated Battle Station (IBS) is the integrated production phase of three development programs: FIDL, Vertical Situation Display Upgrade (VSDU), and Central Integrated Test System (CITS). IBS installations completed in Q4FY20. The original contract action for the IBS programs was executed under a fleet of 62 B-1s. All kit buy totals reflect the 62 aircraft fleet size.

Milestone/Development Status

Current Depot Activation Efforts:

- IBS System Processors - ECD NLT May 22
- Multi-Functional Displays (MFD) - ECD Apr 23

Current DMSMS Resolution Efforts (ECP) for Class I Mass Storage System Replacement (MSSR)

- Engineering Assignment (11446) - MSSR lab testing
- Engineering Assignment (11457) - SB18 software integration (MSSR)
- MSSR kit procurement - Contract award NLT 31 Mar 22
- MSSR kit installation - Contract award NLT Q4FY23, Installs begin Q1FY24

Interim Contractor Support (ICS) through Depot Activation

- ICS during Depot Activation - FIDL system repairs required through Mar 24
- Workload Reassignment and Transfer to 442nd SCMS/GUBA - NLT Q3FY23

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 4280 / Fully Integrated Data Links
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ID Code (A=Service Ready, B=Not Service Ready) : B **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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.655	4.781	9.942	-	9.942	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.655	4.781	9.942	0.000	9.942	0.000	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B01B00 / B-1B					Modification Number / Title: 4280 / Fully Integrated Data Links		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: B-1B				Modification Type: Capability Improvement				Related RDT&E PEs: 0101126F				
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)
RDT&E PE #												
0101126F	2 / 162.988	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 162.988
Procurement												
<i>Modification Item 1 of 1: IBS</i>												
A Kits												
Recurring												
IBS:INSTALL KITS Group A (Active)	60 / 26.375	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 26.375
<i>Subtotal: Recurring</i>	- / 26.375	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.375
B Kits												
Recurring												
IBS:EQUIPMENT Group B (Active)	60 / 136.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 136.174
<i>Subtotal: Recurring</i>	- / 136.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 136.174
<i>Subtotal: IBS</i>	- / 162.549	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 162.549
<i>Subtotal: Procurement, All Modification Items</i>	- / 162.549	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 162.549
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / 40.511	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 40.511
Change Orders	- / 23.739	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.739
Data	- / 2.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.447
SIM/TRAINER	6 / 9.233	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 9.233
SUPPORT-EQUIP	- / 141.583	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 141.583
ICS-Material	- / 126.328	- / 1.748	- / 1.382	- / 16.837	- / -	- / 16.837	- / -	- / -	- / -	- / -	- / -	- / 36.295
OTHER GOVT	- / 124.868	- / 1.907	- / 3.099	- / 3.005	- / -	- / 3.005	- / -	- / -	- / -	- / -	- / -	- / 32.879
A&AS	- / 8.783	- / -	- / 0.300	- / 0.100	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / 9.183
PMA - Other Gov't Costs	- / 12.951	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.951
<i>Subtotal: Support</i>	6 / 180.443	- / 3.655	- / 4.781	- / 9.942	- / -	- / 9.942	- / -	- / -	- / -	- / -	- / -	6 / 198.821
Installation												
<i>Modification Item 1 of 1: IBS</i>	60 / 68.209	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 68.209
<i>Subtotal: Installation</i>	60 / 68.209	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 68.209
Total												
Total Cost (Procurement + Support + Installation)	411.201	3.655	4.781	9.942	0.000	9.942	0.000	-	-	-	-	429.579

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 4280 / Fully Integrated Data Links
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: IBS

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Oklahoma City, OK
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 20

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

Installation Information

Method of Implementation: 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	60 / 68.209	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 68.209
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	60 / 68.209	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 68.209

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	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	60
Out	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	60

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	292.106	3.263	6.234	7.248	0.000	7.248	0.000	-	-	-	-	308.851
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	292.106	3.263	6.234	7.248	0.000	7.248	0.000	-	-	-	-	308.851
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	292.106	3.263	6.234	7.248	0.000	7.248	0.000	-	-	-	-	308.851

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	17.867	-	-	-	-	-	-	-	-	-	-	17.867
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Vertical Situation Display Upgrade (VSDU) is a safety-critical program to replace B-1B pilot and co-pilot primary flight displays and associated flight instruments. This modification installs two 8"x6" color displays at pilot and co-pilot stations to provide Primary Flight Information (PFI) and backup PFI to meet flight safety standards. These displays also provide front crew situational awareness from the Fully Integrated Data Link (FIDL) enhancing the ability to avoid threats and strike emerging targets. Modification funding will be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS). DMSMS activities can include, but are not limited to, life of type buy or minor redesign. Procurement modification funding will be used to establish depot repair capability and for Interim Contractor Support (ICS) during depot activation. Activities comprised in the equipment non-recurring line include, but are not limited to, production test equipment and tooling.

The Integrated Battle Station (IBS) is the integrated production phase of three development programs: FIDL, Vertical Situation Display Upgrade (VSDU), and Central Integrated Test System (CITS). IBS installations completed in 4QFY20. The original contract action for the IBS programs was executed under a fleet of 62 B-1s. All kit buy totals reflect the 62 aircraft fleet size.

If the IBS programs (FIDL, CITS, VSDU) do not receive adequate funding, then Depot Activation and DMS solutions cannot complete as scheduled and lack of ICS contractual coverage will lead to reduced serviceable line replaceable units to the field, ultimately resulting in impact to B-1 mission capability.

Milestone/Development Status

Current Depot Activation Efforts:

- IBS System Processors - Completes May 22
- Multi-Functional Displays (MFD) - Completes Apr 23

Current DMSMS Resolution Efforts for Class I Mass Storage System Replacement (MSSR)

- Engineering Assignment (11446) - MSSR lab testing
- Engineering Assignment (11457) - SB18 software integration (MSSR)
- MSSR kit procurement - Contract award Mar 22
- MSSR kit installation - Contract award Q4FY23, Installs begin Q1FY24

Interim Contractor Support (ICS) through Depot Activation

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS

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

- ICS during Depot Activation - CITS system repairs required through Mar 24
 - Workload reassignment and Transfer to 442nd SCMS/GUBA - Q3FY23

Current ICS material procurement increased in FY23 for the incorporation of a final technical order as well as the purchase and installation of Windows 10 on the program test set.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.263	3.271	7.248	-	7.248	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	2.963	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.263	6.234	7.248	0.000	7.248	0.000	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B01B00 / B-1B							Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: B-1B				Modification Type: Service Life Extension				Related RDT&E PEs: 0101126F					
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)	
RDT&E PE #													
0101126F	2 / 166.669	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 166.669	
Procurement													
Modification Item 1 of 1: IBS (3)													
A Kits													
Recurring													
IBS:INSTALL KITS Group A (Active)	60 / 14.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 14.878	
Subtotal: Recurring	- / 14.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.878	
B Kits													
Recurring													
IBS:EQUIPMENT Group B (Active)	60 / 69.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 69.183	
IBS:EQUIPMENT Group B (Guard)	- / -	- / -	- / 2.963	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.963	
Subtotal: Recurring	- / 69.183	- / -	- / 2.963	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 72.146	
Subtotal: IBS (3)	- / 84.061	- / -	- / 2.963	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 87.024	
Subtotal: Procurement, All Modification Items	- / 84.061	- / -	- / 2.963	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 87.024	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 14.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.903	
Change Orders	- / 10.718	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.718	
Data	- / 1.540	- / -	- / -	- / 1.845	- / -	- / 1.845	- / -	- / -	- / -	- / -	- / -	- / 3.385	
SIM/TRAINER	2 / 4.962	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.962	
SUPPORT-EQUIP	- / 18.646	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.646	
ICS-Material	- / 24.788	- / 2.662	- / 1.983	- / 5.029	- / -	- / 5.029	- / -	- / -	- / -	- / -	- / -	- / 34.462	
OTHER GOVT	- / 42.940	- / 0.601	- / 1.288	- / 0.374	- / -	- / 0.374	- / -	- / -	- / -	- / -	- / -	- / 45.203	
PMA - Contractor Services	- / 8.562	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.562	
PMA - Other Gov't Costs	- / 0.411	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.411	
Subtotal: Support	2 / 127.470	- / 3.263	- / 3.271	- / 7.248	- / -	- / 7.248	- / -	- / -	- / -	- / -	- / -	2 / 141.252	
Installation													
Modification Item 1 of 1: IBS (3)	60 / 80.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 80.575	
Subtotal: Installation	60 / 80.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 80.575	
Total													

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Models of Systems Affected: B-1B	Modification Type: Service Life Extension	Related RDT&E PEs: 0101126F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	292.106	3.263	6.234	7.248	0.000	7.248	0.000	-	-	-	-	308.851

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: IBS (3)

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Oklahoma City, OK
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 20

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

Installation Information

Method of Implementation: 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	60 / 80.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 80.575
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	60 / 80.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 80.575

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	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	60
Out	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	60

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 92314 / MIDS-JTRS

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	7.975	6.977	6.595	0.000	6.595	0.000	0.000	0.000	-	-	21.547
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	7.975	6.977	6.595	0.000	6.595	0.000	0.000	0.000	-	-	21.547
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	7.975	6.977	6.595	0.000	6.595	0.000	0.000	0.000	-	-	21.547

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	2.959	-	-	-	-	-	-	-	-	-	2.959
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

MIDS-JTRS replaces the existing MIDS-LVT (1) (Low Volume Terminal) Link 16 terminal to meet the 2022 NSA Crypto Modernization (CM) Device Cease Key as well as DoD Link 16 mandate/directive and FAA/NTIA Frequency Remap mandate. The current MIDS-LVT (1) system became non-compliant on 1 Jan 22. MIDS-JTRS resolves all LVT 1 deficiencies and adds substantial combat capability enhancements to Link 16 Enhanced Throughput (LET) and Concurrent Multi-Netting (CMN-4) with Concurrent Retention Receive (CRR). MIDS-JTRS also provides multi-datalink capability, improving situational awareness and allowing rapid in-flight re-targeting in a cooperative combat environment. The B-1B does not have voice communication over Link-16 if the MIDS-JTRS program is not implemented.

Program efforts will focus on delivering all mandates and directives, which includes integration of MIDS-JTRS terminal and all associated software, wiring, and hardware updates.

This modification is for the B-1B fleet of 45 aircraft.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

MIDS-JTRS is a fielded system and Naval Information Warfare Systems Command (NAVWAR) manages MIDS-JTRS production contract for the DoD.

Milestone/Development Status

Continue Engineering and Manufacturing Development (EMD) Phase

Major Milestone: Complete DT/OT - Q3FY22; MS-C - Q1FY23

Executing Long Lead Procurement of MIDS-JTRS terminals with NAVAIR - Delivery Q3FY22 thru Q3FY23

Long-lead procurement of MIDS-JTRS terminal LRUs ahead of MS-C approved in Acquisition Strategy to meet program schedule.

FY22 funding for kits and installation is being used for the retrofit of early prototype terminals.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	7.975	6.977	6.595	-	6.595	-	-	-	-
Total:	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 92314 / MIDS-JTRS
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	7.975	6.977	6.595	0.000	6.595	0.000	0.000	0.000	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B01B00 / B-1B					Modification Number / Title: 92314 / MIDS-JTRS			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: B-1				Modification Type: Capability Improvement				Related RDT&E PEs: 0101126F					
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)	
RDT&E PE #													
0101126F	10 / 15.712	- / 6.776	- / 4.290	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 26.778	
Procurement													
<i>Modification Item 1 of 1: Kits and Installation (LRU)</i>													
B Kits													
Recurring													
Kits and Installation (LRU):EQUIPMENT Group B (Active)	- / -	35 / 7.975	- / 0.591	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 8.566	
<i>Subtotal: Recurring</i>	- / -	- / 7.975	- / 0.591	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.566	
<i>Subtotal: Kits and Installation (LRU)</i>	- / -	- / 7.975	- / 0.591	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.566	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 7.975	- / 0.591	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.566	
Support (All Modification Items)													
OTHER GOVT	- / -	- / -	- / 0.400	- / 0.732	- / -	- / 0.732	- / -	- / -	- / -	- / -	- / -	- / 1.132	
Change Orders	- / -	- / -	- / 1.879	- / 2.310	- / -	- / 2.310	- / -	- / -	- / -	- / -	- / -	- / 4.189	
SIM/TRAINER	- / -	- / -	- / 0.230	- / 1.570	- / -	- / 1.570	- / -	- / -	- / -	- / -	- / -	- / 1.800	
<i>Subtotal: Support</i>	- / -	- / -	- / 2.509	- / 4.612	- / -	- / 4.612	- / -	- / -	- / -	- / -	- / -	- / 7.121	
Installation													
<i>Modification Item 1 of 1: Kits and Installation (LRU)</i>	- / -	- / -	23 / 3.877	12 / 1.983	- / -	12 / 1.983	- / -	- / -	- / -	- / -	- / -	35 / 5.860	
<i>Subtotal: Installation</i>	- / -	- / -	23 / 3.877	12 / 1.983	- / -	12 / 1.983	- / -	- / -	- / -	- / -	- / -	35 / 5.860	
Total													
Total Cost (Procurement + Support + Installation)	0.000	7.975	6.977	6.595	0.000	6.595	0.000	0.000	0.000	0.000	-	21.547	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 92314 / MIDS-JTRS
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Kits and Installation (LRU)

Manufacturer Information

Manufacturer Name: Viasat Manufacturer Location: California

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	Jun 2021						
Delivery Dates	Jun 2022						

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	23 / 3.877	12 / 1.983	- / -	12 / 1.983	- / -	- / -	- / -	- / -	- / -	35 / 5.860
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	23 / 3.877	12 / 1.983	- / -	12 / 1.983	- / -	- / -	- / -	- / -	- / -	35 / 5.860

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	0	-	-	-	-	-	-	-	23	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	35
Out	0	-	-	-	-	-	-	-	-	4	7	5	6	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	35

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 92316 / Radio Crypto Compliance

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	7.719	0.000	7.719	15.239	2.782	2.204	0.464	0.000	28.408
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	7.719	0.000	7.719	15.239	2.782	2.204	0.464	0.000	28.408
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	0.000	7.719	0.000	7.719	15.239	2.782	2.204	0.464	0.000	28.408

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	0.847	0.891	-	0.891	-	-	-	-	-	1.738
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The B-1B Radio Crypto Modernization and Compliance requirements originate from JROCM 040-11, VACM Cease Key CED-026-11, UHF SATCOM (Ultra-high frequency Satellite Communication) Decommission and Cease Key for Demand Assigned Multi Access (DAMA) Orderwire, HALF QUICK II Cease use date, and DoD CIO Mobile User Objective System (MUOS) transition directive. If the requirements/directives are not met, B-1B will lose its secure line of sight, beyond line of sight, and anti-jam communication with ground and air forces. The initiative will replace the existing ARC-210 (RT-1797 & RT-1851) with common ARC-210 next generation radios. Additionally, the program will provide MUOS capability.

The Radio Crypto program:

- Radio-Crypto ARC-210 (formerly Increment 1) addresses the NSA mandate by providing crypto compliant radios and second generation anti-jam Ultra High-Frequency radio for NATO (SATURN.) This increment will replace the two obsolete ARC-210 Gen 3/4 radios with modernized ARC-210 Gen 6 radios and associative aircraft wiring/software in order to support the new radios.
- Radio-Crypto MUOS (formerly Increment 2) incorporates MUOS Satellite Communication capability that supports the DoD Chief Information Officer (CIO) directive to move all DoD assets to MUOS constellation (70% by FY26). This increment will lay in Ethernet cable required by MUOS Data (J-REAP C), install MUOS ancillaries (HPA/LNA), and additional software to execute MUOS capability on the aircraft.

This modification is for the B-1B fleet of 45 aircraft that are being modified with Pacific Defense Initiative funding.

Funding may be used, but not limited to, addressing Diminishing Manufacturing Sources (DMS) issues.

Milestone/Development Status

Continue Engineering and Manufacturing Development (EMD) Phase for Radio-Crypto ARC-210 (formerly Increment 1).

Major Milestone: CDR - Q3FY22

Radio-Crypto ARC-210 (formerly Increment 1): Progress from CDR through Flight Test and complete the EMD phase.

Radio-Crypto MUOS (formerly Increment 2): Release the EMD Request for Proposal with a tentative contract award in Q1FY24.

SAC-D Mark for 3.1M - Procurement funding early to need and zeroed out for FY22. Long-lead procurement will occur once FY23 funding is in place. Long-lead procurement of ARC-210 radio LRUs (14-18 months) ahead of MS-C approved in Acquisition Strategy to meet program schedule.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 92316 / Radio Crypto Compliance
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ID Code (A=Service Ready, B=Not Service Ready) : B **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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	7.719	-	7.719	15.239	2.782	2.204	0.464
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.000	0.000	7.719	0.000	7.719	15.239	2.782	2.204	0.464

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B01B00 / B-1B				Modification Number / Title: 92316 / Radio Crypto Compliance				
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Models of Systems Affected: B-1			Modification Type: Capability Improvement				Related RDT&E PEs: 0101126F					
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)
RDT&E PE #												
0101126F	4 / 15.434	- / 7.653	- / 5.615	- / 13.144	- / -	- / 13.144	- / 13.601	- / 16.302	- / 1.953	- / -	- / -	4 / 73.702
Procurement												
Modification Item 1 of 3: ARC-210 RT-2036												
B Kits												
Recurring												
ARC-210 RT-2036:EQUIPMENT Group B (Active)	- / -	- / -	- / -	15 / 5.453	- / -	15 / 5.453	16 / 6.754	- / -	- / -	- / -	- / -	31 / 12.207
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 5.453	- / -	- / 5.453	- / 6.754	- / -	- / -	- / -	- / -	- / 12.207
<i>Subtotal: ARC-210 RT-2036</i>	- / -	- / -	- / -	- / 5.453	- / -	- / 5.453	- / 6.754	- / -	- / -	- / -	- / -	- / 12.207
Modification Item 2 of 3: MUOS LNA/HPA												
B Kits												
Recurring												
MUOS LNA/HPA:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	41 / 4.085	- / -	- / -	- / -	- / -	41 / 4.085
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.085	- / -	- / -	- / -	- / -	- / 4.085
<i>Subtotal: MUOS LNA/HPA</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.085	- / -	- / -	- / -	- / -	- / 4.085
Modification Item 3 of 3: Wiring												
A Kits												
Recurring												
Wiring:INSTALL KITS Group A (Active)	- / -	- / -	- / -	15 / 0.540	- / -	15 / 0.540	16 / 0.800	- / -	- / -	- / -	- / -	31 / 1.340
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.540	- / -	- / 0.540	- / 0.800	- / -	- / -	- / -	- / -	- / 1.340
<i>Subtotal: Wiring</i>	- / -	- / -	- / -	- / 0.540	- / -	- / 0.540	- / 0.800	- / -	- / -	- / -	- / -	- / 1.340
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 5.993	- / -	- / 5.993	- / 11.639	- / -	- / -	- / -	- / -	- / 17.632
Support (All Modification Items)												
A&AS	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.636	- / -	- / 0.370	- / -	- / -	- / 1.006
Change Orders	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.456	- / 0.373	- / -	- / -	- / -	- / 0.829
SIM/TRAINER	- / -	- / -	- / -	- / 1.186	- / -	- / 1.186	- / 0.522	- / 0.372	- / 0.434	- / -	- / -	- / 2.514
GFP	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.626	- / 0.373	- / -	- / -	- / -	- / 0.999
ICS-Material	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / 0.464	- / -	- / -	- / -	- / 0.864
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 1.186	- / -	- / 1.186	- / 2.640	- / 1.582	- / 0.804	- / -	- / -	- / 6.212
Installation												
Modification Item 1 of 3: ARC-210 RT-2036	- / -	- / -	- / -	10 / 0.540	- / -	10 / 0.540	15 / 0.960	16 / 1.000	- / -	- / -	- / -	41 / 2.500

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 **P-1 Line Item Number / Title:** B01B00 / B-1B **Modification Number / Title:** 92316 / Radio Crypto Compliance

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

Models of Systems Affected: B-1 **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0101126F

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 2 of 3: MUOS LNA/HPA	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.200	28 / 1.400	9 / 0.464	- / -	41 / 2.064
<i>Subtotal: Installation</i>	- / -	- / -	- / -	10 / 0.540	- / -	10 / 0.540	15 / 0.960	20 / 1.200	28 / 1.400	9 / 0.464	- / -	82 / 4.564
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	7.719	0.000	7.719	15.239	2.782	2.204	0.464	0.000	28.408

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 92316 / Radio Crypto Compliance
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 3: ARC-210 RT-2036

Manufacturer Information

Manufacturer Name: Collins Aerospace	Manufacturer Location: Richardson, TX
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	10 / 0.540	- / -	10 / 0.540	15 / 0.960	- / -	- / -	- / -	- / -	25 / 1.500
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.000	- / -	- / -	- / -	16 / 1.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	10 / 0.540	- / -	10 / 0.540	15 / 0.960	16 / 1.000	- / -	- / -	- / -	41 / 2.500

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	0	-	-	-	-	-	-	-	-	-	-	5	5	5	4	4	2	4	4	4	4	-	-	-	-	-	-	-	-	0	41
Out	0	-	-	-	-	-	-	-	-	-	-	-	5	5	5	4	4	2	4	4	4	4	-	-	-	-	-	-	-	0	41

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 92316 / Radio Crypto Compliance
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 2 of 3: MUOS LNA/HPA

Manufacturer Information

Manufacturer Name: Collins Aerospace	Manufacturer Location: Richmond, Tx
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.200	28 / 1.400	9 / 0.464	- / -	41 / 2.064
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.200	28 / 1.400	9 / 0.464	- / -	41 / 2.064

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	7	7	7	7	5	4	-	-	0	41
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	7	7	7	7	5	4	-	0	41

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: B01B00 / B-1B			Modification Number / Title: 92316 / Radio Crypto Compliance	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 3 of 3: Wiring							
Manufacturer Information							
Manufacturer Name: Boeing				Manufacturer Location: Oklahoma City			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 18			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 0		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft	P-1 Line Item Number / Title: B05200 / B-52
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0101113F	Other Related Program Elements: 0101113F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	698.956	18.081	70.420	127.854	-	127.854	276.435	620.521	1,086.606	1,156.380	0.000	4,055.253
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	698.956	18.081	70.420	127.854	-	127.854	276.435	620.521	1,086.606	1,156.380	0.000	4,055.253
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	698.956	18.081	70.420	127.854	-	127.854	276.435	620.521	1,086.606	1,156.380	0.000	4,055.253

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	2.692	-	1.582	-	1.582	0.206	0.210	0.214	0.218	-	5.122
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The B-52H is a long-range strategic bomber capable of delivering the widest variety of nuclear and conventional standoff and direct attack munitions in the Air Force. The Air Force maintains 76 B-52Hs in its inventory. The Air Force plans to fly the B-52H to 2050. The B-52H averages 20,171 airframe hours as of Feb 2022 (Source: Logistics Inventory Management System-Earned Value (LIMS-EV)).

This line item funds modifications to the B-52H aircraft.

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.

Funding for the exhibit contained in PE 0101113F. Funding under this PE may be used to alleviate Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.009	63.946	116.400	-	116.400	256.035	601.925	1,076.801
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.072	6.474	11.454	-	11.454	20.400	18.596	9.805
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	18.081	70.420	127.854	-	127.854	276.435	620.521	1,086.606

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft

P-1 Line Item Number / Title:
B05200 / B-52

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0101113F **Other Related Program Elements:** 0101113F

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-40a***	3265 / B-52 Anti-Skid Replacement (Reliability & Maintainability)				- / 22.306	- / 0.567	- / -	- / -	- / -	- / -
P-40a***	6885 / AETC Trainers (B-52) (Other)				- / 14.464	- / 0.226	- / 0.389	- / 0.560	- / -	- / 0.560
P-40a***	6890 / B-52 Radar Modernization (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6891 / B-52 WST AR Upgrade Trainer (Other)				- / 0.855	- / -	- / -	- / -	- / -	- / -
P-40a***	6892 / B-52 Low Cost Improvements (Capability Improvement)				- / 7.071	- / 2.441	- / 6.525	- / 0.528	- / -	- / 0.528
P-40a***	6897 / B-52 CERP (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6899 / B-52 Quad Crew Initiative (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6900 / Advanced Extremely High Frequency (AEHF) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6901 / Airspace Compliance (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Other Mods (Other)				- / 21.765	- / 0.470	- / 0.476	- / 0.485	- / -	- / 0.485
P-3a	3310 / B-52 Combat Network Communications Technology (Capability Improvement)			A	- / 620.025	- / 0.000	- / 15.737	- / 17.015	- / 0.000	- / 17.015
P-3a	6889 / Bomber Tactical Data link (Capability Improvement)			B	- / 11.934	- / 14.377	- / 15.841	- / 32.357	- / 0.000	- / 32.357
P-3a	6893 / GPS-IU Replacement (Capability Improvement)			B	- / 0.536	- / 0.000	- / 7.863	- / 22.827	- / 0.000	- / 22.827
P-3a	6894 / B-52 Crypto Modernization (Capability Improvement)			B	- / -	- / 0.000	- / 3.452	- / 37.567	- / 0.000	- / 37.567
P-3a	6896 / B-52 VLF/LF Modernization (Capability Improvement)			B	- / 0.000	- / 0.000	- / 20.137	- / 16.515	- / 0.000	- / 16.515
P-40	Total Gross/Weapon System Cost				- / 698.956	- / 18.081	- / 70.420	- / 127.854	- / -	- / 127.854

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-40a***	3265 / B-52 Anti-Skid Replacement (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 22.873
P-40a***	6885 / AETC Trainers (B-52) (Other)				- / 2.742	- / 2.793	- / 2.837	- / 2.898	- / -	- / 26.909
P-40a***	6890 / B-52 Radar Modernization (Capability Improvement)				- / 115.470	- / 209.485	- / 239.992	- / 244.258	- / 0.000	- / 809.205
P-40a***	6891 / B-52 WST AR Upgrade Trainer (Other)				- / -	- / -	- / -	- / -	- / -	- / 0.855
P-40a***	6892 / B-52 Low Cost Improvements (Capability Improvement)				- / 2.575	- / 2.622	- / 2.675	- / 2.730	- / -	- / 27.167
P-40a***	6897 / B-52 CERP (Reliability & Maintainability)				- / -	- / 230.402	- / 694.039	- / 706.129	- / -	- / 1,630.570
P-40a***	6899 / B-52 Quad Crew Initiative (Capability Improvement)				- / 27.552	- / 41.718	- / 42.808	- / 64.461	- / -	- / 176.539
P-40a***	6900 / Advanced Extremely High Frequency (AEHF) (Capability Improvement)				- / 16.850	- / 47.850	- / 51.700	- / 64.788	- / -	- / 181.188
P-40a***	6901 / Airspace Compliance (Capability Improvement)				- / -	- / 28.480	- / 28.416	- / 55.276	- / -	- / 112.172
P-40a***	99999X / Other Mods (Other)				- / 0.485	- / 0.501	- / 0.511	- / 0.500	- / -	- / 25.193
P-3a	3310 / B-52 Combat Network Communications Technology (Capability Improvement)			A	- / 0.000	- / -	- / -	- / -	- / -	- / 652.777

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft

P-1 Line Item Number / Title:
B05200 / B-52

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0101113F **Other Related Program Elements:** 0101113F

Line Item MDAP/MAIS Code: N/A

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	6889 / Bomber Tactical Data link (Capability Improvement)		B		- / 29.159	- / 27.100	- / 12.188	- / 7.400	- / -	- / 150.356
P-3a	6893 / GPS-IU Replacement (Capability Improvement)		B		- / 21.700	- / 0.600	- / 0.000	- / 0.000	- / -	- / 53.526
P-3a	6894 / B-52 Crypto Modernization (Capability Improvement)		B		- / 33.662	- / 23.270	- / 5.240	- / 4.740	- / 0.000	- / 107.931
P-3a	6896 / B-52 VLF/LF Modernization (Capability Improvement)		B		- / 26.240	- / 5.700	- / 6.200	- / 3.200	- / -	- / 77.992
P-40	Total Gross/Weapon System Cost				- / 276.435	- / 620.521	- / 1,086.606	- / 1,156.380	- / 0.000	- / 4,055.253

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

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

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

Justification:
The following programs are receiving procurement funding in FY23, more information for each program can be found in the respective P-3As:
3310/B-52 Combat Network Communications Technology
6885/AETC Trainers
6889/Bomber Tactical Data Link
6892/B-52 Low Cost Improvements
6893/B-52 Global Positioning System-Interface Unit
6884/B-52 Crypto Modernization
6896/B-52 VLF/LF Modernization
1/Other Mods

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 3310 / B-52 Combat Network Communications Technology

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	620.025	0.000	15.737	17.015	0.000	17.015	0.000	-	-	-	-	652.777
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	620.025	0.000	15.737	17.015	0.000	17.015	0.000	-	-	-	-	652.777
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	620.025	0.000	15.737	17.015	0.000	17.015	0.000	-	-	-	-	652.777

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	33.358	-	-	-	-	-	-	-	-	-	-	33.358
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The B-52H Combat Network Communication Technology (CONNECT) acquisition project supports nuclear and conventional operations by upgrading the B-52H fleet with data and voice communications capabilities along with improved threat and situational awareness to support participation in network centric operations. This CONNECT modification includes procurement of 74 aircraft kits and 2 Engineering and Manufacturing Development (EMD) kits that will be installed in conjunction with Programmed Depot Maintenance (PDM). Ground station mission planning hardware, support equipment, initial spares, and Interim Contractor Support (ICS) will be procured. Additional initial support/readiness efforts will develop and upgrade B-52H training devices with CONNECT functionality. The CONNECT training device upgrades provide full CONNECT functionality to support aircrew training. The Aircrew Training Devices (ATDs) include three B-52H Weapon System Trainers (WST) and two Offensive Station Mission Trainers (OSMT), and the upgrades will also be installed in the Systems Integration Lab (SIL). The Other Government Cost line includes, but is not limited to, Diminishing Manufacturing Sources and Material Shortages (DMSMS) costs to maintain the production configuration through the identification, review and monitoring of items with high obsolescence risk potential, classification of identified items according to criticality, identification of alternatives, and implementation of resolutions. Resolutions may include non-recurring engineering (NRE) and/or replacement costs for DMSMS components, bridge buys of DMSMS components until NRE can be completed, or Life of Type buys, whichever is most appropriate. Included in the Support Equipment line is the planning for establishment of an organic Depot capability, stand-up of the depot, procurement of depot equipment and procurement of the CONNECT Ground Station. Funds may be used to address emerging and short-notice DMSMS issues.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0101113F. Two EMD kits were purchased with RDT&E funding.

CONNECT installation completed in FY21 for the entire B-52 fleet of 76 aircraft. FY22 and FY23 funding supports completion of depot activation and CONNECT Ground Stations (CGS).

Depot Source Of Repair (DSOR) Number: 19-066.

Milestone/Development Status

Program funding in FY23 supports CONNECT Ground Station with an anticipated contract award in 3QFY23.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	15.737	17.015	-	17.015	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 3310 / B-52 Combat Network Communications Technology

ID Code (A=Service Ready, B=Not Service Ready) : A **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	0.000	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.000	15.737	17.015	0.000	17.015	0.000	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B05200 / B-52					Modification Number / Title: 3310 / B-52 Combat Network Communications Technology			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: B-52H				Modification Type: Capability Improvement				Related RDT&E PEs: 0101113F					
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)	
RDT&E PE #													
0101113F	2 / 21.044	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	2 / 21.044	
Procurement													
Modification Item 1 of 1: CONECT Kit													
A Kits													
Recurring													
CONECT Kit:INSTALL KITS Group A (Active)	37 / 50.439	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 50.439	
CONECT Kit:INSTALL KITS Group A (Reserve)	37 / 20.882	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 20.882	
Subtotal: Recurring	- / 71.321	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 71.321	
B Kits													
Recurring													
CONECT Kit:EQUIPMENT Group B (Active)	49 / 136.128	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 136.128	
CONECT Kit:EQUIPMENT Group B (Reserve)	25 / 39.482	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 39.482	
Subtotal: Recurring	- / 175.610	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 175.610	
Subtotal: CONECT Kit	- / 246.931	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 246.931	
Subtotal: Procurement, All Modification Items	- / 246.931	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 246.931	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 5.623	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.623	
GROUP B: TOTAL NONRECURRING	- / 66.989	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 66.989	
Change Orders	- / 19.753	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.853	
Data	- / 0.465	- / -	- / 8.033	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.498	
SIM/TRAINER	0 / 18.973	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 18.973	
SUPPORT-EQUIP	- / 54.029	- / -	- / 6.100	- / 17.015	- / -	- / 17.015	- / -	- / -	- / -	- / -	- / -	- / 77.144	
OTHER GOVT	- / 68.217	- / -	- / 1.504	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 69.721	
GFP	- / 13.640	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.640	
PMA - Other Gov't Costs	- / 143.776	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 143.776	
Subtotal: Support	0 / 291.465	- / -	- / 15.737	- / 17.015	- / -	- / 17.015	- / -	- / -	- / -	- / -	- / -	0 / 324.217	
Installation													
Modification Item 1 of 1: CONECT Kit	69 / 81.629	5 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 81.629	
Subtotal: Installation	69 / 81.629	5 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 81.629	
Total													

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 3310 / B-52 Combat Network Communications Technology

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Models of Systems Affected: B-52H	Modification Type: Capability Improvement	Related RDT&E PEs: 0101113F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	620.025	0.000	15.737	17.015	0.000	17.015	0.000	-	-	-	-	652.777

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 3310 / B-52 Combat Network Communications Technology

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: CONECT Kit

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Oklahoma City, OK
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 9

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

Installation Information

Method of Implementation: 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	69 / 81.629	5 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 81.629
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	69 / 81.629	5 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 81.629

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	69	1	3	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	74	
Out	69	1	3	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	74		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6889 / Bomber Tactical Data link

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	11.934	14.377	15.841	32.357	0.000	32.357	29.159	27.100	12.188	7.400	-	150.356
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	11.934	14.377	15.841	32.357	0.000	32.357	29.159	27.100	12.188	7.400	-	150.356
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	11.934	14.377	15.841	32.357	0.000	32.357	29.159	27.100	12.188	7.400	-	150.356

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	2.381	2.495	-	-	-	-	-	-	-	-	-	4.876
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Bomber Tactical Data Link (TDL) will provide low latency, jam-resistant situational awareness and command/control needed to support in-theater operations/missions via a Line-of-Sight (LOS) Link 16 capability. The program consist of integrating an existing off-the-shelf Link 16 terminal into the B-52H. Integration includes Group A wiring, rack, and antennas and the Group B blanking unit and notch filter Line Replaceable Units (LRU). The Multi-Functional Information Distribution System Joint Tactical Radio System (MIDS-JTRS) terminals will be installed inside Section 41 of the aircraft and two external antennas will be mounted on the top and bottom of the fuselage. The TDL terminal and LOS capability will be integrated with the rest of the Combat Network Communications Technology (CONNECT) subsystem. Updates to Common Link Integration Processing (CLIP) will be required to support both LOS and Beyond Line-of-Sight (BLOS) message processing.

This modification is required for the B-52 fleet of 76 aircraft. This modification includes procurement of 74 contractor provided aircraft kits and 2 Engineering and Manufacturing Development (EMD) kits that will be installed via programmed depot maintenance (PDM) and contract field teams (CFT).

Funds may be used to address requirements including, but not limited to, emerging and short-notice Diminishing Manufacturing Sources and Material Shortages (DMSMS) for both aircraft and associated training systems, test, and safety of flight issues. Additionally, funds may accommodate Program Management Administration (PMA) and support, rapid technology insertion, and fulfill Federal Aviation Agency (FAA) or other mandates necessary to ensure continued aircrew safety and mission effectiveness. DMSMS efforts include removal of end-of-life software/hardware within simulators systems and move to a modular, common open system architecture that is sustainable and cyber-resilient, as well as implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative.

Milestone/Development Status

EMD Contract awarded 9 Sep 2017
Milestone C is scheduled for Jun 2022

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.305	13.838	27.305	-	27.305	26.136	24.624	12.188	7.400
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.072	2.003	5.052	-	5.052	3.023	2.476	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6889 / Bomber Tactical Data link
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	14.377	15.841	32.357	0.000	32.357	29.159	27.100	12.188	7.400

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B05200 / B-52				Modification Number / Title: 6889 / Bomber Tactical Data link				
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Models of Systems Affected: B-52H			Modification Type: Capability Improvement				Related RDT&E PEs: 0101113F					
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)
RDT&E PE #												
0101113F	2 / 41.211	- / 2.125	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 43.336
Procurement												
Modification Item 1 of 1: Link-16												
A Kits												
Recurring												
Link-16:INSTALL KITS Group A (Active)	2 / 1.423	3 / 2.138	4 / 2.803	18 / 4.547	- / -	18 / 4.547	17 / 4.498	12 / 3.466	- / -	- / -	- / -	56 / 18.875
Link-16:INSTALL KITS Group A (Reserve)	1 / 0.712	2 / 1.425	1 / 0.701	7 / 1.768	- / -	7 / 1.768	4 / 1.058	3 / 0.867	- / -	- / -	- / -	18 / 6.531
Subtotal: Recurring	- / 2.135	- / 3.563	- / 3.504	- / 6.315	- / -	- / 6.315	- / 5.556	- / 4.333	- / -	- / -	- / -	- / 25.406
B Kits												
Recurring												
Link-16:EQUIPMENT Group B (Active)	2 / 2.643	3 / 3.970	4 / 5.206	18 / 8.445	- / -	18 / 8.445	17 / 8.353	12 / 6.437	- / -	- / -	- / -	56 / 35.054
Link-16:EQUIPMENT Group B (Reserve)	1 / 1.322	2 / 2.647	1 / 1.302	7 / 3.284	- / -	7 / 3.284	4 / 1.965	3 / 1.609	- / -	- / -	- / -	18 / 12.129
Subtotal: Recurring	- / 3.965	- / 6.617	- / 6.508	- / 11.729	- / -	- / 11.729	- / 10.318	- / 8.046	- / -	- / -	- / -	- / 47.183
Subtotal: Link-16	- / 6.100	- / 10.180	- / 10.012	- / 18.044	- / -	- / 18.044	- / 15.874	- / 12.379	- / -	- / -	- / -	- / 72.589
Subtotal: Procurement, All Modification Items	- / 6.100	- / 10.180	- / 10.012	- / 18.044	- / -	- / 18.044	- / 15.874	- / 12.379	- / -	- / -	- / -	- / 72.589
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 0.249	- / -	- / 1.106	- / 1.165	- / -	- / 1.165	- / 1.370	- / 0.988	- / 0.813	- / 0.382	- / -	- / 6.073
GROUP B: TOTAL NONRECURRING	- / 0.449	- / 3.213	- / 2.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.716
ICS-Labor	- / 0.027	- / 0.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.044
GFP	- / 3.474	- / -	- / -	- / 10.706	- / -	- / 10.706	- / 9.857	- / 2.985	- / 2.688	- / 0.669	- / -	- / 30.379
SUPPORT-EQUIP	- / 0.462	- / -	- / 1.136	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.598
SIM/TRAINER	- / -	- / -	- / -	- / 0.194	- / -	- / 0.194	- / -	- / 1.218	- / 0.935	- / 0.042	- / -	- / 2.389
OTHER GOVT	- / 0.523	- / 0.300	- / 0.050	- / 0.050	- / -	- / 0.050	- / 0.050	- / 0.050	- / 0.025	- / 1.416	- / -	- / 2.464
PMA - Contractor Services	- / 0.650	- / 0.667	- / 0.800	- / 0.825	- / -	- / 0.825	- / -	- / 1.037	- / 0.900	- / 0.927	- / -	- / 5.806
Change Orders	- / -	- / -	- / 0.683	- / 1.373	- / -	- / 1.373	- / -	- / 3.046	- / 1.627	- / 0.214	- / -	- / 6.943
Subtotal: Support	- / 5.834	- / 4.197	- / 5.829	- / 14.313	- / -	- / 14.313	- / 11.277	- / 9.324	- / 6.988	- / 3.650	- / -	- / 61.412
Installation												
Modification Item 1 of 1: Link-16	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.008	28 / 5.397	21 / 5.200	15 / 3.750	- / -	74 / 16.355
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.008	28 / 5.397	21 / 5.200	15 / 3.750	- / -	74 / 16.355
Total												

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6889 / Bomber Tactical Data link
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Models of Systems Affected: B-52H **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0101113F

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)	11.934	14.377	15.841	32.357	0.000	32.357	29.159	27.100	12.188	7.400	-	150.356

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6889 / Bomber Tactical Data link
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Link-16

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Oklahoma City, OK
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 22

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

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	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.602	- / -	- / -	- / -	- / -	3 / 0.602
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.004	- / -	- / -	- / -	- / -	5 / 1.004
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.402	3 / 0.578	- / -	- / -	- / -	5 / 0.980
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 4.819	- / -	- / -	- / -	25 / 4.819
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 5.200	- / -	- / -	21 / 5.200
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 3.750	- / -	15 / 3.750
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.008	28 / 5.397	21 / 5.200	15 / 3.750	- / -	74 / 16.355

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4	-	7	7	7	7	7	7	7	7	0	6	6	3	-	0	74
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4	-	7	7	7	7	7	7	7	7	0	6	6	3	0	74

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6893 / GPS-IU Replacement

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.536	0.000	7.863	22.827	0.000	22.827	21.700	0.600	0.000	0.000	-	53.526
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.536	0.000	7.863	22.827	0.000	22.827	21.700	0.600	0.000	0.000	-	53.526
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.536	0.000	7.863	22.827	0.000	22.827	21.700	0.600	0.000	0.000	-	53.526

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	0.000	1.580	-	1.580	-	-	-	-	-	1.580
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Global Positioning System (GPS)-Interface Unit (GPS-IU) integrates GPS Position, Navigation, and Timing (PNT) data into navigation, communications, and weapons systems on board the B-52. The GPS-IU acts as a controller for a MIL-STD-1553 data bus communications path. The major areas of support include GPS interface control and monitoring, targeting pod functions, navigation displays for the Pilot and Copilot stations, and Identification Friend or Foe (IFF) control functions.

Originally developed with a 33MHz processor with 4MB of Static Random Access Memory (SRAM), the GPS-IU has become overloaded as more software has been added to the B-52. Currently, the GPS-IU is operating at 86 percent throughput capacity and at 90 percent memory capacity, exceeding the designated safety threshold of 95 percent memory load in 2019. The GPS-IU Upgrade program will provide increased throughput and memory capacity by replacing the current GPS-IU Line Replaceable Unit (LRU). The new LRU will contain the necessary associated electronics to allow for increased processor throughput, more memory, and sustainable electronic packages.

The GPS-IU is also facing parts obsolescence issues. The upgrade will improve system reliability and address Diminishing Manufacturing Sources (DMS) and Material Shortages (DMSMS) issues on subcomponents of the GPS-IU. The modified GPS-IU will retain the existing functions and interfaces of the legacy GPS-IU and provide additional interfaces to allow for future growth requirements. It includes two Ethernet Ports and two connectors on the face-plate for future growth.

GPS-IU requires upgrading to incorporate any other GPS-dependent capabilities on the B-52 platform. B-52 fleet will have the capability to carry additional GPS-dependent weapons and targeting pods and the increased capacity to incorporate future GPS-dependent capabilities.

The GPS-IU program includes 2 aircraft kits to support Engineering and Manufacturing Development (EMD) activities and 76 production kits for installation on the 76 B-52 aircraft. The program is currently funded to procure kits for production. After EMD completes, the 2 GPS-IU kits used during EMD will be swapped with 2 GPS-IU production kits to ensure the GPS-IU kits will function as required on the B-52 over the long-term. The GPS-IU LRU will be installed at the organizational level of maintenance.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0101113F. This program includes associated changes to training and support equipment, System Integration Laboratory (SIL) upgrades, technical data, and procurement of initial spares. Funds will be used to resolve emerging safety of flight and DMSMS issues, accommodate technology insertion and fulfill Federal Aviation Agency (FAA) or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

Schedule delays due to sub-vendor issues resulted in realigning all of the FY21 procurement funding to other B-52 programs.

Milestone/Development Status

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6893 / GPS-IU Replacement
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

Technical Maturation and Risk Reduction Contract Awarded in Feb 17
Milestone A in Mar 17
Milestone B in Jun 18
EMD Contract Awarded on 28 Sep 18
Milestone C is scheduled for 3QFY23

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.863	19.610	-	19.610	18.387	0.600	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	3.217	-	3.217	3.313	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	7.863	22.827	0.000	22.827	21.700	0.600	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B05200 / B-52				Modification Number / Title: 6893 / GPS-IU Replacement					
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: B-52H				Modification Type: Capability Improvement				Related RDT&E PEs: 0101113F					
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)	
RDT&E PE #													
0101113F	- / 55.529	- / 0.771	- / 0.693	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 56.993	
Procurement													
<i>Modification Item 1 of 1:</i> GPS IU Upgrade													
B Kits													
Recurring													
GPS IU Upgrade:EQUIPMENT Group B (Active)	- / -	- / -	- / -	40 / 14.297	- / -	40 / 14.297	18 / 6.627	- / -	- / -	- / -	- / -	58 / 20.924	
GPS IU Upgrade:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	9 / 3.217	- / -	9 / 3.217	9 / 3.313	- / -	- / -	- / -	- / -	18 / 6.530	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 17.514	- / -	- / 17.514	- / 9.940	- / -	- / -	- / -	- / -	- / 27.454	
<i>Subtotal: GPS IU Upgrade</i>	- / -	- / -	- / -	- / 17.514	- / -	- / 17.514	- / 9.940	- / -	- / -	- / -	- / -	- / 27.454	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 17.514	- / -	- / 17.514	- / 9.940	- / -	- / -	- / -	- / -	- / 27.454	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 0.536	- / -	- / -	- / 3.258	- / -	- / 3.258	- / 1.849	- / -	- / -	- / -	- / -	- / 5.643	
PMA - Other Gov't Costs	- / -	- / -	- / 1.235	- / 0.684	- / -	- / 0.684	- / 0.704	- / 0.600	- / -	- / -	- / -	- / 3.223	
OTHER GOVT	- / -	- / -	- / 3.384	- / 1.371	- / -	- / 1.371	- / 4.061	- / -	- / -	- / -	- / -	- / 8.816	
GFP	- / -	- / -	- / 3.244	- / -	- / -	- / -	- / 5.146	- / -	- / -	- / -	- / -	- / 8.390	
<i>Subtotal: Support</i>	- / 0.536	- / -	- / 7.863	- / 5.313	- / -	- / 5.313	- / 11.760	- / 0.600	- / -	- / -	- / -	- / 26.072	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.536	0.000	7.863	22.827	0.000	22.827	21.700	0.600	0.000	0.000	-	53.526	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: B05200 / B-52			Modification Number / Title: 6893 / GPS-IU Replacement	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: GPS IU Upgrade							
Manufacturer Information							
Manufacturer Name: Boeing				Manufacturer Location: Oklahoma City, OK			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 15			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Apr 2023	Apr 2024			
Delivery Dates			Jul 2024	Jul 2025			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 76		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6894 / B-52 Crypto Modernization

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	3.452	37.567	0.000	37.567	33.662	23.270	5.240	4.740	0.000	107.931
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	3.452	37.567	0.000	37.567	33.662	23.270	5.240	4.740	0.000	107.931
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	3.452	37.567	0.000	37.567	33.662	23.270	5.240	4.740	0.000	107.931

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

B-52 Crypto Modernization P-3A Mod 6894 upgrades aircraft with Mobile User Objective System (MUOS) capable ARC-210 radio systems to prevent loss of Beyond Line of Sight (BLOS) voice and data communications capability. As MUOS channels are turned on, existing satellites will be removed from service. Without this modernization effort, B-52 CONECT is at risk of losing its File Transfer Protocol (FTP), email, BLOS voice, and BLOS data link communications due to the failure to meet DoD/NSA mandates, which will result in the inability to operate the B-52 OCONUS.

The B-52 Crypto Modernization program is funded to modify the 76 required B-52 aircraft. This modification includes the procurement of 74 production aircraft kits and 2 Engineering and Manufacturing Development (EMD) kits that will be installed via programmed depot maintenance (PDM) and contract field teams (CFT).

Funds may be used to address requirements including, but not limited to, emerging and short-notice Diminishing Manufacturing Sources and Material Shortages (DMSMS) for both aircraft and associated training systems, test, and safety of flight issues. Additionally, funds may accommodate Program Management Administration (PMA) and support, rapid technology insertion, and fulfill Federal Aviation Agency (FAA) or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

Milestone/Development Status

Acquisition Strategy approved 2QFY19
 Preliminary Design Review completed 1QFY20
 Critical Design Review completed 4QFY20
 MS C is planned for 4QFY23

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.452	34.382	-	34.382	30.467	14.683	4.714
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	3.185	-	3.185	3.195	8.587	0.526
Total:	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6894 / B-52 Crypto Modernization
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	0.000	3.452	37.567	0.000	37.567	33.662	23.270	5.240	4.740

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B05200 / B-52					Modification Number / Title: 6894 / B-52 Crypto Modernization			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: B-52H				Modification Type: Capability Improvement				Related RDT&E PEs: 0101113F					
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)	
RDT&E PE #													
0101113F	- / -	- / 8.348	- / 17.453	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.801	
Procurement													
<i>Modification Item 1 of 1: Crypto</i>													
A Kits													
Recurring													
Crypto:INSTALL KITS Group A (Active)	- / -	- / -	- / -	26 / 8.468	- / -	26 / 8.468	26 / 8.226	4 / 1.339	- / -	- / -	- / -	56 / 18.033	
Crypto:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	4 / 1.303	- / -	4 / 1.303	4 / 1.266	10 / 3.348	- / -	- / -	- / -	18 / 5.917	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 9.771	- / -	- / 9.771	- / 9.492	- / 4.687	- / -	- / -	- / -	- / 23.950	
B Kits													
Recurring													
Crypto:EQUIPMENT Group B (Active)	- / -	- / -	- / -	26 / 12.234	- / -	26 / 12.234	26 / 12.536	4 / 1.976	- / -	- / -	- / -	56 / 26.746	
Crypto:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	4 / 1.882	- / -	4 / 1.882	4 / 1.929	10 / 4.941	- / -	- / -	- / -	18 / 8.752	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 14.116	- / -	- / 14.116	- / 14.465	- / 6.917	- / -	- / -	- / -	- / 35.498	
<i>Subtotal: Crypto</i>	- / -	- / -	- / -	- / 23.887	- / -	- / 23.887	- / 23.957	- / 11.604	- / -	- / -	- / -	- / 59.448	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 23.887	- / -	- / 23.887	- / 23.957	- / 11.604	- / -	- / -	- / -	- / 59.448	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 4.292	- / -	- / 4.292	- / 4.107	- / 2.646	- / 0.697	- / 0.436	- / -	- / 12.178	
Change Orders	- / -	- / -	- / -	- / 1.541	- / -	- / 1.541	- / 1.506	- / 1.762	- / -	- / -	- / -	- / 4.809	
A&AS	- / -	- / -	- / -	- / 0.384	- / -	- / 0.384	- / 0.790	- / 0.810	- / 0.598	- / 0.355	- / -	- / 2.937	
Data	- / -	- / -	- / -	- / 0.809	- / -	- / 0.809	- / 0.821	- / 0.928	- / -	- / -	- / -	- / 2.558	
GFP	- / -	- / -	- / -	- / 3.289	- / -	- / 3.289	- / 1.926	- / 1.572	- / -	- / -	- / -	- / 6.787	
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.390	- / 0.575	- / -	- / -	- / -	- / 0.965	
OTHER GOVT	- / -	- / -	- / 3.452	- / 3.365	- / -	- / 3.365	- / 10.165	- / 1.609	- / -	- / -	- / -	- / 18.591	
<i>Subtotal: Support</i>	- / -	- / -	- / 3.452	- / 13.680	- / -	- / 13.680	- / 9.705	- / 9.902	- / 1.295	- / 0.791	- / -	- / 38.825	
Installation													
<i>Modification Item 1 of 1: Crypto</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.764	30 / 3.945	30 / 3.949	- / -	74 / 9.658	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.764	30 / 3.945	30 / 3.949	- / -	74 / 9.658	
Total													
Total Cost (Procurement + Support + Installation)	-	0.000	3.452	37.567	0.000	37.567	33.662	23.270	5.240	4.740	0.000	107.931	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6894 / B-52 Crypto Modernization
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Crypto

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Oklahoma City
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 22

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

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.764	16 / 2.063	- / -	- / -	30 / 3.827
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.882	16 / 2.011	- / -	30 / 3.893
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.938	- / -	14 / 1.938
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.764	30 / 3.945	30 / 3.949	- / -	74 / 9.658

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	7	7	8	8	7	7	8	8	7	7	0	74
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	7	7	8	8	7	7	8	8	7	7	74

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6896 / B-52 VLF/LF Modernization

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	20.137	16.515	0.000	16.515	26.240	5.700	6.200	3.200	-	77.992
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	20.137	16.515	0.000	16.515	26.240	5.700	6.200	3.200	-	77.992
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	20.137	16.515	0.000	16.515	26.240	5.700	6.200	3.200	-	77.992

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Very Low Frequency/Low Frequency (VLF/LF) Modernization program provides the B-52 with receive-only, very low frequency, secure, survivable strategic communications via a nuclear hardened terminal, antenna, and human-machine interface. This supports the B-52 requirement for media diversity and the B-52 strategic mission and ensures nuclear command and control of the B-52 fleet. The current VLF receiver is experiencing supportability concerns and drives the need for a more sustainable VLF capability.

VLF/LF program will deliver VLF capability needed for B-52 strategic nuclear command and control. This program provides the framework and flexibility to enable future increments for the remainder of the strategic airborne fleet as well as a bridge to future VLF upgrades to the B-52. The program's acquisition strategy is based on modifying and qualifying an existing terminal. This approach supports timely integration and installation onto the B-52 platform while leveraging existing technology and mature systems to reduce cost and development schedule.

The requirement for the VLF/LF program is to modify 76 B-52 aircraft. The program is funded to modify 76 B-52 aircraft (74 production aircraft and 2 Engineering and Manufacturing Development aircraft). Aircraft kits will be installed via programmed depot maintenance (PDM) and contract field teams (CFT).

Funds may be used to address requirements including, but not limited to, emerging and short-notice Diminishing Manufacturing Sources and Material Shortages (DMSMS) for both aircraft and associated training systems, test, and safety of flight issues. Additionally, funds may accommodate Program Management Administration (PMA) and support, rapid technology insertion, and fulfill Federal Aviation Agency (FAA) or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

Milestone/Development Status

Acquisition Strategy Approved in Jan 2019
 Preliminary Design Review completed in 2QFY21 with Critical Design Review completed in 3QFY21
 Developmental and operational test to begin in FY23 followed by Milestone C in 3QFY23

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	15.666	16.515	-	16.515	18.789	5.003	6.200	2.191
AFR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	4.471	-	-	-	7.451	0.697	-	1.009

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Exhibit P-3a, Individual Modification: PB 2023 Air Force							Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: B05200 / B-52				Modification Number / Title: 6896 / B-52 VLF/LF Modernization			
ID Code (A=Service Ready, B=Not Service Ready) : B					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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.000	20.137	16.515	0.000	16.515	26.240	5.700	6.200	3.200

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B05200 / B-52				Modification Number / Title: 6896 / B-52 VLF/LF Modernization				
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Models of Systems Affected: B-52H			Modification Type: Capability Improvement				Related RDT&E PEs: 0101113F					
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)
RDT&E PE #												
0101113F	- / 34.551	2 / 12.744	- / 9.187	- / 9.000	- / -	- / 9.000	- / -	- / -	- / -	- / -	- / -	2 / 65.482
Procurement												
<i>Modification Item 1 of 1: VLF/LF</i>												
A Kits												
Recurring												
VLF/LF:INSTALL KITS Group A (Active)	- / -	- / -	18 / 4.097	21 / 5.101	- / -	21 / 5.101	17 / 4.367	- / -	- / -	- / -	- / -	56 / 13.565
VLF/LF:INSTALL KITS Group A (Reserve)	- / -	- / -	7 / 1.593	- / -	- / -	- / -	11 / 2.826	- / -	- / -	- / -	- / -	18 / 4.419
<i>Subtotal: Recurring</i>	- / -	- / -	- / 5.690	- / 5.101	- / -	- / 5.101	- / 7.193	- / -	- / -	- / -	- / -	- / 17.984
B Kits												
Recurring												
VLF/LF:EQUIPMENT Group B (Active)	- / -	- / -	18 / 7.402	21 / 7.679	- / -	21 / 7.679	17 / 7.149	- / 1.796	- / 2.053	- / 0.956	- / -	56 / 27.035
VLF/LF:EQUIPMENT Group B (Reserve)	- / -	- / -	7 / 2.878	- / -	- / -	- / -	11 / 4.625	- / -	- / -	- / -	- / -	18 / 7.503
<i>Subtotal: Recurring</i>	- / -	- / -	- / 10.280	- / 7.679	- / -	- / 7.679	- / 11.774	- / 1.796	- / 2.053	- / 0.956	- / -	- / 34.538
<i>Subtotal: VLF/LF</i>	- / -	- / -	- / 15.970	- / 12.780	- / -	- / 12.780	- / 18.967	- / 1.796	- / 2.053	- / 0.956	- / -	- / 52.522
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 15.970	- / 12.780	- / -	- / 12.780	- / 18.967	- / 1.796	- / 2.053	- / 0.956	- / -	- / 52.522
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / 0.804	- / 0.512	- / -	- / 0.512	- / -	- / -	- / -	- / -	- / -	- / 1.316
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / 1.607	- / 1.006	- / -	- / 1.006	- / -	- / -	- / -	- / -	- / -	- / 2.613
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.927	- / -	- / -	- / -	- / -	- / 10.927
PMA - Other Gov't Costs	- / -	- / -	- / 1.756	- / 12.217	- / -	- / 12.217	- / 15.206	- / 1.414	- / 1.894	- / 0.868	- / -	- / 13.355
<i>Subtotal: Support</i>	- / -	- / -	- / 4.167	- / 3.735	- / -	- / 3.735	- / 16.133	- / 1.414	- / 1.894	- / 0.868	- / -	- / 18.211
Installation												
<i>Modification Item 1 of 1: VLF/LF</i>	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.140	25 / 2.490	22 / 2.253	15 / 1.376	- / -	74 / 17.259
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.140	25 / 2.490	22 / 2.253	15 / 1.376	- / -	74 / 17.259
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	20.137	16.515	0.000	16.515	26.240	5.700	6.200	3.200	-	77.992

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6896 / B-52 VLF/LF Modernization
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: VLF/LF

Manufacturer Information

Manufacturer Name: Boeing and Collins Aerospace Manufacturer Location: Oklahoma City, OK and Richardson, TX

Administrative Leadtime (in Months): 0 Production Leadtime (in Months): 20

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

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.140	13 / 1.295	- / -	- / -	- / -	25 / 2.435
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.195	9 / 0.922	- / -	- / -	21 / 2.117
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 1.331	15 / 1.376	- / -	28 / 2.707
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.140	25 / 2.490	22 / 2.253	15 / 1.376	- / -	74 / 7.259

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	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	6	6	7	6	6	6	6	6	5	5	5	5	5	0	0	74
Out	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	6	6	7	6	6	6	6	6	5	5	5	5	5	0	74

Method of Implementation (Organic): Org/Intermediate **Installation Quantity:** 0

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0401134F	Other Related Program Elements: 0401134F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	510.084	56.320	57.001	25.286	-	25.286	5.460	31.376	20.528	20.973	709.060	1,436.088
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	510.084	56.320	57.001	25.286	-	25.286	5.460	31.376	20.528	20.973	709.060	1,436.088
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	510.084	56.320	57.001	25.286	-	25.286	5.460	31.376	20.528	20.973	709.060	1,436.088

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Large Aircraft Infrared Countermeasures (LAIRCM) system provides a significantly improved defensive capability for the Department of Defense to counter the proliferating infrared (IR) man-portable air defense systems (MANPADS) missile threats by detecting, tracking, and countering incoming IR missiles. This system is fully autonomous following power-up and consists of Group A aircraft modification kits and Group B hardware. Group B hardware for the LAIRCM system [AN/AQQ-24(V)] currently consists of missile warning sensors; laser transmitter assemblies; a control indicator unit; a system processor, and repeaters, as needed by the platform.

The production program maintains a robust reliability program which results in the incorporation of reliability enhancements improving overall producibility, while gaining the inherent benefit of improved long-term sustainment. There are numerous LAIRCM configurations installed on a variety of aircraft, however, all configurations include a processor and a control indicator unit. Configurations can be differentiated by the type of missile warning sensors and laser transmitter assemblies.

Funding supports efforts that include, but are not limited to Hardware Procurement (Group A and Group B), Installation, Installation Support, Initial Spares, Support Equipment, Government Furnished Equipment (GFE) and GFE Repairs, Line Replaceable Unit (LRU) Repairs, Interim Contractor Support (ICS), Depot Standup, Systems Engineering and Program Management (SEPM), Failure Reporting and Corrective Analysis Support (FRACAS), Other Government Costs (OGCs), Pre-Planned Product Improvements, Program Support, Simulators, and Data.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Like most programs, LAIRCM faces the challenges associated with resolving Diminishing Manufacturing Sources (DMS) issues and software errors / inefficiencies. The LAIRCM program office seeks to ensure continued production of LAIRCM components for all LAIRCM customers. Funding may be used to address (DMS) issues and software corrections or minor improvements. The LAIRCM DMS program includes all activities associated with monitoring and identifying DMS issues. It also includes all activities required to resolve DMS issues such as: 1) the use of existing material solutions which involves actions to secure availability of existing supply (i.e., life of type buy and extension of production or support); 2) implementing substitutes which includes engineering activities to qualify and implement the identified substitute (i.e., approved part; repair, refurbishment, or reclamation; simple substitute; and complex substitute); and 3) redesign which includes all aspects of engineering and qualification to implement new or highly modified equipment (i.e., development of a new item or source; redesign of a next higher assembly; and redesign of a complex/system replacement).

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0401134F	Other Related Program Elements: 0401134F
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Line Item MDAP/MAIS Code: N/A

LAIRCM program office (PO) has multiple DMS efforts that will start in FY 2022 and FY 2023 that are critical to the long term supportability of the LAIRCM program. LAIRCM PO does not have the capability to receive funding direct prior to FY 2023 so all DMS funding is shared between C17 and C130J. In FY 2022, \$57M is programmed to support DMS efforts. All FY 2022 funding is budgeted in the C130J Mod but will be executed by the LAIRCM PO. Beginning in FY 2023 and forward, the LAIRCM PO costs will be captured in its own Mod Number 8629LC.

LAIRCM kit quantities purchased are dependent on the unit cost and/or the installation cost of the 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.

Funding for this exhibit contained in PE 0401134F.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	54.457	57.001	25.286	-	25.286	5.460	31.376	20.528	20.973
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	-	-	-	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.863	0.000	0.000	-	0.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	56.320	57.001	25.286	-	25.286	5.460	31.376	20.528	20.973

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft

P-1 Line Item Number / Title:
LAIRCM / Large Aircraft Infrared Countermeasures

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0401134F **Other Related Program Elements:** 0401134F

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-40a***	8629C130 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130 (Capability Improvement)				- / 15.685	- / -	- / -	- / -	- / -	- / -
P-40a***	8629C17 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17 (Capability Improvement)				- / 249.502	- / 9.999	- / 0.000	- / 0.015	- / -	- / 0.015
P-40a***	8629C5 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5 (Capability Improvement)				- / 53.073	- / -	- / -	- / 0.082	- / -	- / 0.082
P-40a***	8629CFIN / LAIRCM CFIN (Capability Improvement)				- / -	- / 7.500	- / -	- / -	- / -	- / -
P-40a***	8629LC / Large Aircraft Infrared Countermeasures (Capability Improvement)				- / -	- / -	- / -	- / 19.000	- / -	- / 19.000
P-3a	1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J (Capability Improvement)		B		- / 191.824	- / 38.821	- / 57.001	- / 6.189	- / 0.000	- / 6.189
P-40	Total Gross/Weapon System Cost				- / 510.084	- / 56.320	- / 57.001	- / 25.286	- / -	- / 25.286

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-40a***	8629C130 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 15.685
P-40a***	8629C17 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17 (Capability Improvement)				- / 0.501	- / 9.380	- / 7.050	- / 7.492	- / -	- / 283.939
P-40a***	8629C5 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5 (Capability Improvement)				- / 0.100	- / 0.123	- / 0.100	- / 0.100	- / -	- / 53.578
P-40a***	8629CFIN / LAIRCM CFIN (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 7.500
P-40a***	8629LC / Large Aircraft Infrared Countermeasures (Capability Improvement)				- / 3.000	- / 14.900	- / 5.128	- / 4.531	- / -	- / 46.559
P-3a	1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J (Capability Improvement)		B		- / 1.859	- / 6.973	- / 8.250	- / 8.850	- / 709.060	- / 1,028.827
P-40	Total Gross/Weapon System Cost				- / 5.460	- / 31.376	- / 20.528	- / 20.973	- / 709.060	- / 1,436.088

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod 8629LC, Large Aircraft Infrared Countermeasures, is a new start.

FY 2023 funding will support a Block 35 configuration that will be integrated onto C-17 aircraft. Installation will be organic.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	191.824	38.821	57.001	6.189	0.000	6.189	1.859	6.973	8.250	8.850	709.060	1,028.827
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	191.824	38.821	57.001	6.189	0.000	6.189	1.859	6.973	8.250	8.850	709.060	1,028.827
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	191.824	38.821	57.001	6.189	0.000	6.189	1.859	6.973	8.250	8.850	709.060	1,028.827

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Large Aircraft Infrared Countermeasures (LAIRCM) system significantly improves defensive capability for the C-130J to counter the proliferating Infrared (IR) man-portable air defense systems (MANPADS) missile threats. The system is fully automatic following power-up. The LAIRCM kit housed behind a turret assembly and functions using missile warning sensors (MWS), two Turret Assemblies, a control indicator unit replacement (CIUR), a colorless eye-safe multiband laser, and a system processor to detect, track, and counter incoming IR missiles. As Line Replaceable Units (LRUs) updated, LAIRCM will update with the latest configuration of LRUs. Block 30 specifically improves capability to detect, track, jam, and counter IR missiles.

This program includes costs for the following C-130J aircraft variants: C-130J stretch aircraft, C-130J short aircraft.

This funding includes Rapid Global Mobility (RGM) platform related activities including but not limited to fielding actions such as kit buys, installation and support equipment.

This program includes efforts needed to procure, install and store retrofit kits, deploy the system and support LAIRCM. These efforts include, but not limited to hardware procurement, installation, installation support, initial spares, support equipment, Government Furnished Equipment (GFE) and GFE repairs, Interim Contractor Support (ICS), mod-line repairs, Systems Engineering and Program Management (SEPM), Failure Reporting and Corrective Analysis Support (FRACAS), Technical Orders, Other Government Costs (OGCs), and program support costs. Costs for the identification, review, monitoring, and mitigation of items impacted by diminishing manufacturing sources (DMS) are included. Additionally, "change orders" include non-recurring engineering (NRE)/replacement costs for equipment updates to increase reliability, availability, and maintainability of LAIRCM group B components as identified during the fiscal year. Block 30 installs will commence in FY 2024. Funding used to address (DMS) issues and software corrections. The LAIRCM DMS program includes all activities associated with monitoring and identifying issues and addressing needed software corrections.

LAIRCM program office (PO) has multiple DMS efforts that will start in FY 2022 and FY 2023 that are critical to the long term supportability of the LAIRCM program. LAIRCM PO does not have the capability to receive funding direct prior to FY 2023 so all DMS funding is shared between C17 and C130J. In FY 2022, \$57M is programmed to support DMS efforts. All FY 2022 is planned for C130J Mod # but will be executed by the LAIRCM PO. Beginning in FY 2023 and beyond, LAIRCM PO costs will be captured in its own Mod #8629LC.

Block 20 Guard Install kit delta: National Guard Bureau (NGB) did not have the funds to purchase B Kits. However, since the A Kits were already on contract to be installed that part of the modification was completed.

Block 30 and Block 30-to-35: Block 35 will require the purchase of the new Guardian Laser Turret Assemblies (GLTA) other block 30 LRU's, certification on the platform to include airworthiness activities and technical order updates, software update, and is expected that installation of the LRU will be done organically by maintainers. Funding can be used to support any NRE efforts required to support Block 35.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

Milestone/Development Status

Development is complete.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	38.821	57.001	6.189	-	6.189	1.859	6.973	8.250	8.850
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	38.821	57.001	6.189	0.000	6.189	1.859	6.973	8.250	8.850

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures					Modification Number / Title: 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: C130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0401134F					
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: Basic Js (Block 20)													
A Kits													
Recurring													
Basic Js (Block 20):INSTALL KITS Group A (Active)	33 / 42.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 42.386	
Basic Js (Block 20):INSTALL KITS Group A (Guard)	8 / 3.964	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.964	
Basic Js (Block 20):INSTALL KITS Group A (Reserve)	8 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.000	
Subtotal: Recurring	- / 46.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 46.350	
B Kits													
Recurring													
Basic Js (Block 20):EQUIPMENT Group B (Active)	33 / 17.275	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 17.275	
Basic Js (Block 20):EQUIPMENT Group B (Guard)	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.000	
Basic Js (Block 20):EQUIPMENT Group B (Reserve)	8 / 7.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 7.900	
Subtotal: Recurring	- / 25.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.175	
Subtotal: Basic Js (Block 20)	- / 71.525	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 71.525	
Modification Item 2 of 2: Basic Js (Block 30)													
A Kits													
Recurring													
Basic Js (Block 30):INSTALL KITS Group A (Active)	2 / 3.916	- / -	- / -	3 / 3.500	- / -	3 / 3.500	- / -	1 / 1.667	2 / 3.417	2 / 3.639	153 / 163.410	163 / 179.549	
Subtotal: Recurring	- / 3.916	- / -	- / -	- / 3.500	- / -	- / 3.500	- / -	- / 1.667	- / 3.417	- / 3.639	- / 163.410	- / 179.549	
B Kits													
Recurring													
Basic Js (Block 30):EQUIPMENT Group B (Active)	21 / 45.583	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	142 / 347.810	163 / 393.393	
Subtotal: Recurring	- / 45.583	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 347.810	- / 393.393	
Subtotal: Basic Js (Block 30)	- / 49.499	- / -	- / -	- / 3.500	- / -	- / 3.500	- / -	- / 1.667	- / 3.417	- / 3.639	- / 511.220	- / 572.942	
Subtotal: Procurement, All Modification Items	- / 121.024	- / -	- / -	- / 3.500	- / -	- / 3.500	- / -	- / 1.667	- / 3.417	- / 3.639	- / 511.220	- / 644.467	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 5.672	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.672	
GROUP B: TOTAL NONRECURRING	- / 25.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.587	
Make New Selection	- / 0.853	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.284	- / 1.237	
SIM/TRAINER	- / -	- / 15.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.000	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures					Modification Number / Title: 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: C130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0401134F				
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)
SUPPORT-EQUIP	- / 1.614	- / 0.925	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.437	- / 8.976
Change Orders	- / 2.283	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.940	- / 11.223
ICS-Labor	- / 2.759	- / 0.918	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.677
PMA - Contractor Services	- / 1.210	- / 6.801	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.214	- / 10.225
OTHER GOVT	- / 18.488	- / 23.452	- / 54.501	- / 2.500	- / -	- / 2.500	- / 1.859	- / 3.456	- / 4.383	- / 4.236	- / 17.242	- / 130.117
PSC - Other Gov't Costs	- / 5.557	- / 1.625	- / 2.500	- / 0.189	- / -	- / 0.189	- / -	- / 0.350	- / 0.450	- / 0.450	- / 17.870	- / 28.991
<i>Subtotal: Support</i>	<i>- / 64.023</i>	<i>- / 38.821</i>	<i>- / 57.001</i>	<i>- / 2.689</i>	<i>- / -</i>	<i>- / 2.689</i>	<i>- / 1.859</i>	<i>- / 3.806</i>	<i>- / 4.833</i>	<i>- / 4.686</i>	<i>- / 52.987</i>	<i>- / 230.705</i>
Installation												
<i>Modification Item 1 of 2: Basic Js (Block 20)</i>	49 / 6.059	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 6.059
<i>Modification Item 2 of 2: Basic Js (Block 30)</i>	2 / 0.718	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.500	- / -	1 / 0.525	157 / 144.853	163 / 147.596
<i>Subtotal: Installation</i>	<i>51 / 6.777</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>3 / 1.500</i>	<i>- / -</i>	<i>1 / 0.525</i>	<i>157 / 144.853</i>	<i>212 / 153.655</i>
Total												
Total Cost (Procurement + Support + Installation)	191.824	38.821	57.001	6.189	0.000	6.189	1.859	6.973	8.250	8.850	709.060	1,028.827

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 2: Basic Js (Block 20)

Manufacturer Information

Manufacturer Name: NORTHROP GRUMMAN	Manufacturer Location: ROLLING MEADOWS
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 3

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	49 / 6.059	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 6.059
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	49 / 6.059	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 6.059

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	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	49
Out	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	49

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 2 of 2: Basic Js (Block 30)

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: ROLLING MEADOWS
Administrative Leadtime (in Months): 12	Production Leadtime (in Months): 12

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Oct 2023		Oct 2025	Oct 2026	Oct 2027
Delivery Dates			Oct 2024		Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: Contractor Facility

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 / 0.718	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.718
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.500	- / -	- / -	0 / 3.200	3 / 4.700
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.525	0 / 1.500	1 / 2.025
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.500	2 / 2.500
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.500	2 / 2.500
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	153 / 135.153	153 / 135.153
Total	2 / 0.718	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.500	- / -	1 / 0.525	157 / 144.853	163 / 147.596

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	1	157	163
Out	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	158	163

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: A01000 / A-10
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207131F	Other Related Program Elements: 0207131F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	439.925	135.793	83.621	83.972	-	83.972	85.148	80.456	52.059	0.000	0.000	960.974
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	439.925	135.793	83.621	83.972	-	83.972	85.148	80.456	52.059	0.000	0.000	960.974
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	439.925	135.793	83.621	83.972	-	83.972	85.148	80.456	52.059	0.000	0.000	960.974

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications and upgrades to the A-10 weapon system to ensure it remains combat effective. The A-10 is a twin engine, single seat aircraft capable of delivering a full range of air-to-ground munitions as well as self-defense air-to-air missiles. The A-10 provides persistent, effective and precise Close Air Support, Interdiction, Forward Air Controller (airborne), Combat Search & Rescue and Strike Control & Reconnaissance. Funding for this exhibit is contained in PE 0207131F.

Wing Replacement Program (ATTACK) procures new wings to enable the A-10 Fleet to fly and fight into 2030+. A new wing procurement effort will provide flexibility in fleet size options and provides resiliency in the existing fleet.

Helmet Mounted Cueing System (HMCS) Interim Contractor Support (ICS) is needed to repair critical components to keep units fully operational. The HMCS program is jointly managed by the A-10 and F-16 System Program Offices and provides extant A-10Cs and F-16C+ Block 30/32 aircraft with a Helmet Mounted Integrated Targeting (HMIT) System that will provide off-boresight cueing, targeting, and situational awareness capability.

ARC-210 replaces current ARC-210 Gen 4 radio(s) with Gen 6 to ensure crypto compliance, replaces current Radio Control Unit (RCU) with C-12561B (required update for Gen 6), maintains same functionality of the Gen 4, continues using 1553 Bus controller vice an Ethernet connection, and replaces ARC-164 with ARC-210 Gen 4 (Suite 11). Installs will be either Contract Field Team (CFT) or Depot Speed Line (DSL) which is organic. Procurement funds are for the hardware purchases for the fleet FY20-24. Procurement funds after that will be used for installs. Suite 11 is scheduled to field 2QFY23. ARC-210 Gen 6 installs will follow soon after. Currently pursuing an integration contract via RDT&E dollars.

2ND Gigabit Ethernet Switch (2GES) supports future avionics modernizations. Predecessor to 3 Dimensional Audio (3DA), High Resolution Display (HRDS), and ARC-210 programs.

A-10 High Resolution Display System (HRDS) is a technology enabler providing a platform for enhanced tactical applications that will function as a Primary Flight Display and provide Hi Resolution video from Advanced Targeting Pods. The A-10 HRDS is a true next-gen digital interface that will replace legacy analog flight instruments and provide higher resolution video signals to improve the pilot's ability to find, fix, track, target and engage ground targets and threats while reducing pilot workload.

3-Dimensional Audio (3DA) improves the spatial, battle space, and situational awareness (SA) of A-10C pilots through the addition of a digital intercom system upgrade, active and electronic noise reduction, three-dimensional spatial separation for up to four audio channels, and three-dimensional auditory threat cueing from the aircraft missile warning system and radar warning receiver.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft		P-1 Line Item Number / Title: A01000 / A-10
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207131F	Other Related Program Elements: 0207131F
Line Item MDAP/MAIS Code: N/A		

Small Diameter Bomb-1 (SDB-1) requires support equipment (SE) in addition to the integration effort. SE will be used by each A-10C installation to equip and train our maintenance personnel on SDB-I. SE includes Bomb Rack Unit - 61 (BRU-61) Trainers, GBU-39 Trainers, Bomb Slings, Common Munitions Built-in-Test Equipment (CMBRE), CMBRE Adapters, BRU-61 Tacticals, Light Weight Lift Bar and other SE determined by ACC.

On Board Oxygen Generation System (OBOGS) takes in air from the engine intake, filter, compresses oxygen, then delivers to pilot's tube/mask. Replaces more expensive and dangerous Liquid Oxygen breathing system, extends flying times, reduces logistical footprint. 53 A-10 a/c previously OBOGS modified; effort is to complete the fleet for a single configuration

Center Interface Control System(CICS) will upgrade and replaces the current CICU with a modern, modular, redundant, fault tolerant and supportable mission computer. Current CICU is a top MICAP driver, and cannot support planned upgrades to the A-10. Software will sundown in 2026. New CICS will increase MTBF, mitigates heat and vibration issues increasing flying time, supports integration of future modifications, provides ease of repair and enhanced affordable support.

Portable Automatic Test Set 70 A (PATS-70A) provides troubleshooting capability, reduces downtime and enhances fault isolation for Avionics and Armament Munition. It replaces the PATS-30 which experienced obsolescence and diminishing sources and becoming unsupportable. The PATS-70 contains both Avionics and Armament Test Program Sets for the A-10 Aircraft. The program is currently phased (Versions 1 and 2, and Armament). The PATS-70, a modernized version (Threshold) which also includes capabilities for ops check & fault isolation of Alpha Mach (Threshold) & Anti-Skid (Objective) Systems as PATS-70v1 followed by Anti-Skid & Fuel Quantity Indicating Systems (Thresholds) with Stability Augmentation System (SAS), Integrated Flight and Fire Control Computer (IFFCC) Systems (Objectives) as PATS-70v2. PATS-70A will, but is not limited to incorporating all features of the following currently fielded O & I-level armament testers: Control Test Set TS-4231/U, Missile Launch Control Test Set TS-4231/U, Missile Launch System Test Set TS-4230/U, Guided Missile Test Set AN/DSM-157, Gun Test Set TS-138, MK-III & MK-IV Rocket Launcher & Flare Dispenser Testers, and Ejector Bomb & Rack Test Sets.

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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	117.976	59.834	70.708	0.000	70.708	43.985	37.978	26.966	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.961	13.549	6.953	-	6.953	26.545	23.574	13.207	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.856	10.238	6.311	-	6.311	14.618	18.904	11.886	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	135.793	83.621	83.972	0.000	83.972	85.148	80.456	52.059	-

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
A01000 / A-10

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207131F **Other Related Program Elements:** 0207131F

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-40a***	7856 / MODE S/5 (Capability Improvement)				- / 14.520	- / 0.980	- / -	- / -	- / -	- / -
P-40a***	9601 / ONBOARD OXYGEN GENERATING SYSTEM (OBOGS) (Reliability & Maintainability)				- / 29.021	- / 4.700	- / 9.500	- / 1.000	- / -	- / 1.000
P-40a***	9816 / A-10 Conversion Fuel Tanks (Capability Improvement)				- / 8.700	- / -	- / -	- / -	- / -	- / -
P-40a***	9830 / Central Interface Control System (CICS) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9834 / A-10 High Resolution Display System (HRDS) (Capability Improvement)				- / 5.763	- / 0.500	- / 20.173	- / 1.000	- / 0.000	- / 1.000
P-40a***	9836 / 3-Dimensional Audio (3DA) (Capability Improvement)				- / 1.000	- / 5.300	- / 9.300	- / 1.000	- / -	- / 1.000
P-40a***	9839 / SDB-1 (Capability Improvement)				- / 3.200	- / -	- / 4.400	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / 2.000	- / -	- / -	- / -
P-3a	674809 / A01000 Portable Automatic Test Set 70 A (PATS-70A) (Capability Improvement)		B		- / -	- / 0.000	- / 0.000	- / 10.500	- / 0.000	- / 10.500
P-3a	9804 / A-10 Wing Replacement Program (Reliability & Maintainability)		B		- / 362.061	- / 99.863	- / 0.044	- / 36.300	- / 0.000	- / 36.300
P-3a	9806 / A-10 Helmet Mounted Cueing System (Capability Improvement)		B		- / 2.060	- / 1.300	- / 3.004	- / 6.300	- / 0.000	- / 6.300
P-3a	9831 / ARC-210 (Capability Improvement) (Capability Improvement)		B		- / 8.600	- / 18.350	- / 32.300	- / 18.872	- / 0.000	- / 18.872
P-3a	9832 / 2ND GIGABET ETHERNET SWITCH (2GES) (Capability Improvement) (Capability Improvement)		B		- / 5.000	- / 4.800	- / 2.900	- / 9.000	- / 0.000	- / 9.000
P-40	Total Gross/Weapon System Cost				- / 439.925	- / 135.793	- / 83.621	- / 83.972	- / -	- / 83.972

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-40a***	7856 / MODE S/5 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 15.500
P-40a***	9601 / ONBOARD OXYGEN GENERATING SYSTEM (OBOGS) (Reliability & Maintainability)				- / 1.000	- / 1.000	- / -	- / -	- / -	- / 46.221
P-40a***	9816 / A-10 Conversion Fuel Tanks (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 8.700
P-40a***	9830 / Central Interface Control System (CICS) (Capability Improvement)				- / -	- / -	- / 46.125	- / -	- / -	- / 46.125
P-40a***	9834 / A-10 High Resolution Display System (HRDS) (Capability Improvement)				- / 1.000	- / 1.000	- / 1.000	- / -	- / -	- / 30.436
P-40a***	9836 / 3-Dimensional Audio (3DA) (Capability Improvement)				- / 1.000	- / 1.000	- / 1.000	- / -	- / -	- / 19.600
P-40a***	9839 / SDB-1 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 7.600
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 2.000
P-3a	674809 / A01000 Portable Automatic Test Set 70 A (PATS-70A) (Capability Improvement)		B		- / 6.500	- / 0.000	- / 0.000	- / 0.000	- / -	- / 17.000
P-3a	9804 / A-10 Wing Replacement Program (Reliability & Maintainability)		B		- / 61.909	- / 47.975	- / 2.533	- / -	- / -	- / 610.685

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
A01000 / A-10

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207131F **Other Related Program Elements:** 0207131F

Line Item MDAP/MAIS Code: N/A

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	9806 / A-10 Helmet Mounted Cueing System (Capability Improvement)		B		- / 1.300	- / 1.300	- / 0.000	- / -	- / -	- / 15.264
P-3a	9831 / ARC-210 (Capability Improvement) (Capability Improvement)		B		- / 12.439	- / 28.181	- / 1.401	- / 0.000	- / 0.000	- / 120.143
P-3a	9832 / 2ND GIGABET ETHERNET SWITCH (2GES) (Capability Improvement) (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 21.700
P-40	Total Gross/Weapon System Cost				- / 85.148	- / 80.456	- / 52.059	- / 0.000	- / 0.000	- / 960.974

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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 line item funds modifications and upgrades to the A-10 weapon system to ensure it remains combat effective. The A-10 is a twin engine, single seat aircraft capable of delivering a full range of air-to-ground munitions as well as self-defense air-to-air missiles. The A-10 provides persistent, effective and precise Close Air Support, Interdiction, Forward Air Controller (airborne), Combat Search & Rescue and Strike Control & Reconnaissance. Funding for this exhibit is contained in PE 0207131F.

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3-Dimensional Audio (3DA) improves the spatial, battle space, and situational awareness (SA) of A-10C pilots through the addition of a digital intercom system upgrade, active and electronic noise reduction, three-dimensional spatial separation for up to four audio channels, and three-dimensional auditory threat cueing from the aircraft missile warning system and radar warning receiver.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft		P-1 Line Item Number / Title: A01000 / A-10
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207131F	Other Related Program Elements: 0207131F
Line Item MDAP/MAIS Code: N/A		
<p>Small Diameter Bomb-1 (SDB-1) requires support equipment (SE) in addition to the integration effort. SE will be used by each A-10C installation to equip and train our maintenance personnel on SDB-I. SE includes Bomb Rack Unit - 61 (BRU-61) Trainers, GBU-39 Trainers, Bomb Slings, Common Munitions Built-in-Test Equipment (CMBRE), CMBRE Adapters, BRU-61 Tacticals, Light Weight Lift Bar and other SE determined by ACC.</p> <p>Center Interface Control System (CICS) will upgrades and replaces the current CICU with a modern, modular, redundant, fault tolerant and supportable mission computer. Current CICU is a top MICAP driver, experiencing increased failures and DMSMS issues, SW will sundown in 2026. Existing CICU will not support planned upgrades to the A-10. New CICS will increase but is not limited to MTBF, mitigates heat and vibration issues increasing flying time, supports integration of future modifications, provides ease of repair and enhanced affordable support.</p> <p>Portable Automatic Test Set 70 A (PATS-70A) provides troubleshooting capability, reduces downtime and enhances fault isolation for Avionics and Armament Munition. It replaces the PATS-30 which experienced obsolescence and diminishing sources and becoming unsupportable. The PATS-70 contains both Avionics and Armament Test Program Sets for the A-10 Aircraft. The program is currently phased (Versions 1 and 2, and Armament). The PATS-70, a modernized version (Threshold) which also includes capabilities for ops check & fault isolation of Alpha Mach (Threshold) & Anti-Skid (Objective) Systems as PATS-70v1 followed by Anti-Skid & Fuel Quantity Indicating Systems (Thresholds) with Stability Augmentation System (SAS), Integrated Flight and Fire Control Computer (IFFCC) Systems (Objectives) as PATS-70v2. PATS-70A will, but is not limited to incorporating all features of the following currently fielded O & I-level armament testers: Control Test Set TS-4231/U, Missile Launch Control Test Set TS-4231/U, Missile Launch System Test Set TS-4230/U, Guided Missile Test Set AN/DSM-157, Gun Test Set TS-138, MK-III & MK-IV Rocket Launcher & Flare Dispenser Testers, and Ejector Bomb & Rack Test Sets.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 674809 / A01000 Portable Automatic Test Set 70 A (PATS-70A)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	10.500	0.000	10.500	6.500	0.000	0.000	0.000	-	17.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	10.500	0.000	10.500	6.500	0.000	0.000	0.000	-	17.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	10.500	0.000	10.500	6.500	0.000	0.000	0.000	-	17.000

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 674809, A01000 Portable Automatic Test Set 70 A (PATS-70A), is a new start. Portable Automatic Test Set 70 A (PATS-70A) provides troubleshooting capability, reduces downtime and enhances fault isolation for Avionics and Armament Munition. It replaces the PATS-30 which experienced obsolescence and diminishing sources and becoming unsupportable. The PATS-70 contains both Avionics and Armament Test Program Sets for the A-10 Aircraft. The program is currently phased (Versions 1 and 2, and Armament). The PATS-70, a modernized version (Threshold) which also includes capabilities for ops check & fault isolation of Alpha Mach (Threshold) & Anti-Skid (Objective) Systems as PATS-70v1 followed by Anti-Skid & Fuel Quantity Indicating Systems (Thresholds) with Stability Augmentation System (SAS), Integrated Flight and Fire Control Computer (IFFCC) Systems (Objectives) as PATS-70v2. PATS-70A will, but is not limited to incorporating all features of the following currently fielded O & I-level armament testers: Control Test Set TS-4231/U, Missile Launch Control Test Set TS-4231/U, Missile Launch System Test Set TS-4230/U, Guided Missile Test Set AN/DSM-157, Gun Test Set TS-138, MK-III & MK-IV Rocket Launcher & Flare Dispenser Testers, and Ejector Bomb & Rack Test Sets.

Milestone/Development Status

Development 50% complete, with expected completion by 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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.500	-	4.500	6.500	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	3.000	-	3.000	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	3.000	-	3.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	10.500	0.000	10.500	6.500	0.000	0.000	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 674809 / A01000 Portable Automatic Test Set 70 A (PATS-70A)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: A-10	Modification Type: Capability Improvement	Related RDT&E PEs: 0207131F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: Equipment (7)</i>												
B Kits												
Recurring												
Equipment:EQUIPMENT Group B (Active)	- / -	- / -	- / -	7 / 4.500	- / -	7 / 4.500	- / -	- / -	- / -	- / -	- / -	7 / 4.500
Equipment:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	5 / 3.000	- / -	5 / 3.000	- / -	- / -	- / -	- / -	- / -	5 / 3.000
Equipment:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	5 / 3.000	- / -	5 / 3.000	- / -	- / -	- / -	- / -	- / -	5 / 3.000
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 10.500	- / -	- / 10.500	- / -	- / -	- / -	- / -	- / -	- / 10.500
<i>Subtotal: Equipment (7)</i>	- / -	- / -	- / -	- / 10.500	- / -	- / 10.500	- / -	- / -	- / -	- / -	- / -	- / 10.500
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 10.500	- / -	- / 10.500	- / -	- / -	- / -	- / -	- / -	- / 10.500
Support (All Modification Items)												
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.500	- / -	- / -	- / -	- / -	- / 6.500
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.500	- / -	- / -	- / -	- / -	- / 6.500
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	10.500	0.000	10.500	6.500	0.000	0.000	0.000	-	17.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: A01000 / A-10			Modification Number / Title: 674809 / A01000 Portable Automatic Test Set 70 A (PATS-70A)	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: Equipment (7)							
Manufacturer Information							
Manufacturer Name: 309th Software Maintenance				Manufacturer Location: Hill AFB			
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 2022				
Delivery Dates			Dec 2023				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 17		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9804 / A-10 Wing Replacement Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	362.061	99.863	0.044	36.300	0.000	36.300	61.909	47.975	2.533	-	-	610.685
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	362.061	99.863	0.044	36.300	0.000	36.300	61.909	47.975	2.533	-	-	610.685
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	362.061	99.863	0.044	36.300	0.000	36.300	61.909	47.975	2.533	-	-	610.685

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Wing Replacement Program (WRP) incorporates several reliability and maintainability improvements to known critical fatigue locations. With these improvements, the Enhanced Wing Assemblies (EWAs) do not require major structural inspections for the first 10,000 hours of service life. Operational Requirement Document: A-10 Multi-Stage Improvement Program, dated 19 Oct 1999.

Wing kits being organically installed. Funding supports but is not limited to resolving emerging safety of flight efforts and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

Requirements and funding input updated to reflect a 218 TAI (Total Aircraft Inventory).

Milestone/Development Status

Full rate production

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	93.223	0.044	36.300	-	36.300	26.709	19.175	2.533	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.320	-	-	-	-	22.400	19.200	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.320	-	-	-	-	12.800	9.600	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	99.863	0.044	36.300	0.000	36.300	61.909	47.975	2.533	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: A01000 / A-10					Modification Number / Title: 9804 / A-10 Wing Replacement Program			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: A-10				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207131F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> WRP kits, Center/Outer wing panels													
B Kits													
Recurring													
WRP kits, Center/Outer wing panels:EQUIPMENT Group B (Active)	22 / 201.589	6 / 40.400	- / 0.044	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 242.033	
WRP kits, Center/Outer wing panels:EQUIPMENT Group B (Guard)	14 / 95.560	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 95.560	
WRP kits, Center/Outer wing panels:EQUIPMENT Group B (Reserve)	8 / 52.246	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 52.246	
<i>Subtotal: Recurring</i>	- / 349.395	- / 40.400	- / 0.044	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 389.839	
<i>Subtotal: WRP kits, Center/Outer wing panels</i>	- / 349.395	- / 40.400	- / 0.044	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 389.839	
<i>Subtotal: Procurement, All Modification Items</i>	- / 349.395	- / 40.400	- / 0.044	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 389.839	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / 39.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 39.000	
PMA - Other Gov't Costs	- / 12.666	- / 3.863	- / -	- / 15.073	- / -	- / 15.073	- / 14.309	- / 6.375	- / 2.533	- / -	- / -	- / 34.819	
<i>Subtotal: Support</i>	- / 12.666	- / 42.863	- / -	- / 15.073	- / -	- / 15.073	- / 14.309	- / 6.375	- / 2.533	- / -	- / -	- / 73.819	
Installation													
<i>Modification Item 1 of 1:</i> WRP kits, Center/Outer wing panels	- / -	5 / 16.600	- / -	10 / 31.227	- / -	10 / 31.227	18 / 57.600	13 / 41.600	- / -	- / -	- / -	46 / 147.027	
<i>Subtotal: Installation</i>	- / -	5 / 16.600	- / -	10 / 31.227	- / -	10 / 31.227	18 / 57.600	13 / 41.600	- / -	- / -	- / -	46 / 147.027	
Total													
Total Cost (Procurement + Support + Installation)	362.061	99.863	0.044	36.300	0.000	36.300	61.909	47.975	2.533	-	-	610.685	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9804 / A-10 Wing Replacement Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: WRP kits, Center/Outer wing panels

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: ST. Louis
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 3

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	5 / 16.600	- / -	10 / 31.227	- / -	10 / 31.227	18 / 57.600	11 / 35.200	- / -	- / -	- / -	44 / 140.627
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 6.400	- / -	- / -	- / -	2 / 6.400
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	5 / 16.600	- / -	10 / 31.227	- / -	10 / 31.227	18 / 57.600	13 / 41.600	- / -	- / -	- / -	46 / 147.027

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	0	1	1	1	2	-	-	-	-	2	2	3	3	4	4	5	5	4	3	3	3	-	-	0	-	-	-	-	-	0	46
Out	0	-	-	-	-	-	1	-	1	2	2	2	3	3	4	4	5	5	4	4	3	3	0	0	0	-	-	-	-	0	46

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9806 / A-10 Helmet Mounted Cueing System

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2.060	1.300	3.004	6.300	0.000	6.300	1.300	1.300	0.000	-	-	15.264
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2.060	1.300	3.004	6.300	0.000	6.300	1.300	1.300	0.000	-	-	15.264
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2.060	1.300	3.004	6.300	0.000	6.300	1.300	1.300	0.000	-	-	15.264

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Helmet-Mounted Cueing System (HMCS) provides the A-10 weapon system with but is not limited to a Helmet Mounted Integrated Targeting (HMIT) System that provides an off-boresight cueing, targeting and situational awareness capability. The total HMIT system comprises a helmet mounted display assembly, on-Aircraft (A/C) installed HMIT components and host A/C systems (existing and modified). Total system support of the HMCS system is transitioning from an Interim Contractor Support (ICS) to an organic depot support.

Requirement and funding layout updated to reflect 218 TAI (Total Aircraft Inventory).

Milestone/Development Status

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
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.300	3.004	6.300	-	6.300	1.300	1.300	-	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.300	3.004	6.300	0.000	6.300	1.300	1.300	0.000	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9806 / A-10 Helmet Mounted Cueing System

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: A-10	Modification Type: Capability Improvement	Related RDT&E PEs: 0207131F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Equipment												
B Kits												
Recurring												
Equipment:EQUIPMENT Group B (Active)	- / -	- / -	- / -	145 / 2.900	- / -	145 / 2.900	- / -	- / -	- / -	- / -	- / -	145 / 2.900
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 2.900	- / -	- / 2.900	- / -	- / -	- / -	- / -	- / -	- / 2.900
<i>Subtotal: Equipment</i>	- / -	- / -	- / -	- / 2.900	- / -	- / 2.900	- / -	- / -	- / -	- / -	- / -	- / 2.900
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 2.900	- / -	- / 2.900	- / -	- / -	- / -	- / -	- / -	- / 2.900
Support (All Modification Items)												
ICS-Labor	- / 2.060	- / 1.300	- / 3.004	- / 3.400	- / -	- / 3.400	- / 1.300	- / 1.300	- / -	- / -	- / -	- / 12.364
<i>Subtotal: Support</i>	- / 2.060	- / 1.300	- / 3.004	- / 3.400	- / -	- / 3.400	- / 1.300	- / 1.300	- / -	- / -	- / -	- / 12.364
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	2.060	1.300	3.004	6.300	0.000	6.300	1.300	1.300	0.000	-	-	15.264

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: A01000 / A-10			Modification Number / Title: 9806 / A-10 Helmet Mounted Cueing System		
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:			
Modification Item 1 of 1: Equipment								
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): Org/Intermediate					Installation Quantity: 0			

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9831 / ARC-210 (Capability Improvement)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8.600	18.350	32.300	18.872	0.000	18.872	12.439	28.181	1.401	0.000	0.000	120.143
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	8.600	18.350	32.300	18.872	0.000	18.872	12.439	28.181	1.401	0.000	0.000	120.143
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8.600	18.350	32.300	18.872	0.000	18.872	12.439	28.181	1.401	0.000	0.000	120.143

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Continued modernization efforts require the replacement of legacy communication systems in the A-10C. These systems are logistically unsupported and vulnerable to emerging cyber threats due to the lack of updates. A National Security Agency (NSA) mandate exists that requires updates/compliance to current cyber security threats. Also, current communication radios in the jet are not setup to handle all necessary frequencies and networks required for military communications over the next 10 years. Active duty is tasked to pay for the fleet upgrade including AFRC/ANG aircraft.

Replace current ARC-210 Gen 4 radio(s) with Gen 6 to insure crypto compliance. Replace current Radio Control Unit (RCU) with C-12561B (required update for Gen 6). Maintain same functionality of the Gen 4. Continue using 1553 Bus controller vice an Ethernet connection. Replace ARC-164 with ARC-210 Gen 4 (Suite 11). Replace the current HPA/LNA with a Mobile User Objective System (MUOS) compatible HPA/LNA. Installs will be primarily DSL (Depot Speed Line/Organic). Suite 11 scheduled to field 2nd Qtr FY23. ARC-210 Gen 6 installs will follow soon after. Currently under contract for RDT&E dollars.

There are three increments for the ARC-210 program; installation of two Gen 6 Radios and RCU, moving existing Gen 4 radio to the third radio position, and installation of a new HPA/LNA. For the first and third increment both A and B kits need to be bought but for the second increment only A kits need to be bought. This means that every jet would need at least 5 kits purchased. There are a certain number of ACC jets that would need a modification done prior to being able to install two Gen 6 radios so those jets would require an additional kit. Installs shown are for B-kit quantities.

Requirement and funding layout updated to reflect 218 TAI (Total Aircraft Inventory).

Milestone/Development Status

Development Complete

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.020	12.763	11.608	-	11.608	6.476	14.503	1.401	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.488	10.949	3.953	-	3.953	4.145	4.374	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9831 / ARC-210 (Capability Improvement)

ID Code (A=Service Ready, B=Not Service Ready) : B **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	1.842	8.588	3.311	-	3.311	1.818	9.304	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	18.350	32.300	18.872	0.000	18.872	12.439	28.181	1.401	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9831 / ARC-210 (Capability Improvement)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: A-10C	Modification Type: Capability Improvement	Related RDT&E PEs: 0207131F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Equipment (2)												
A Kits												
Recurring												
Equipment:INSTALL KITS Group A (Active)	- / -	- / -	384 / 3.740	350 / 3.880	- / -	350 / 3.880	100 / 0.799	- / -	- / -	- / -	- / -	834 / 8.419
<i>Subtotal: Recurring</i>	- / -	- / -	- / 3.740	- / 3.880	- / -	- / 3.880	- / 0.799	- / -	- / -	- / -	- / -	- / 8.419
B Kits												
Recurring												
Equipment:EQUIPMENT Group B (Active)	- / -	43 / 9.020	45 / 9.023	64 / 3.155	- / -	64 / 3.155	60 / 2.774	13 / 1.410	- / -	- / -	- / -	225 / 25.382
Equipment:EQUIPMENT Group B (Guard)	28 / 5.092	35 / 7.488	43 / 8.619	26 / 1.294	- / -	26 / 1.294	20 / 0.920	10 / 0.984	- / -	- / -	- / -	162 / 24.397
Equipment:EQUIPMENT Group B (Reserve)	19 / 3.508	7 / 1.842	42 / 8.418	30 / 1.501	- / -	30 / 1.501	30 / 1.366	9 / 0.886	- / -	- / -	- / -	137 / 17.521
<i>Subtotal: Recurring</i>	- / 8.600	- / 18.350	- / 26.060	- / 5.950	- / -	- / 5.950	- / 5.060	- / 3.280	- / -	- / -	- / -	- / 67.300
<i>Subtotal: Equipment (2)</i>	- / 8.600	- / 18.350	- / 29.800	- / 9.830	- / -	- / 9.830	- / 5.859	- / 3.280	- / -	- / -	- / -	- / 75.719
<i>Subtotal: Procurement, All Modification Items</i>	- / 8.600	- / 18.350	- / 29.800	- / 9.830	- / -	- / 9.830	- / 5.859	- / 3.280	- / -	- / -	- / -	- / 75.719
Installation												
<i>Modification Item 1 of 1:</i> Equipment (2)												
	- / -	- / -	30 / 2.500	85 / 9.042	- / -	85 / 9.042	102 / 6.580	213 / 24.901	6 / 1.401	- / -	- / -	436 / 44.424
<i>Subtotal: Installation</i>	- / -	- / -	30 / 2.500	85 / 9.042	- / -	85 / 9.042	102 / 6.580	213 / 24.901	6 / 1.401	- / -	- / -	436 / 44.424
Total												
Total Cost (Procurement + Support + Installation)	8.600	18.350	32.300	18.872	0.000	18.872	12.439	28.181	1.401	0.000	0.000	120.143

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9831 / ARC-210 (Capability Improvement)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: Equipment (2)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	30 / 2.500	17 / 1.810	- / -	17 / 1.810	- / -	- / -	- / -	- / -	- / -	47 / 4.310
FY 2021	- / -	- / -	- / -	68 / 7.232	- / -	68 / 7.232	17 / 1.097	- / -	- / -	- / -	- / -	85 / 8.329
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	85 / 5.483	45 / 5.260	- / -	- / -	- / -	130 / 10.743
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 14.030	- / -	- / -	- / -	120 / 14.030
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 5.611	6 / 1.401	- / -	- / -	54 / 7.012
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	30 / 2.500	85 / 9.042	- / -	85 / 9.042	102 / 6.580	213 / 24.901	6 / 1.401	- / -	- / -	436 / 44.424

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	0	-	-	-	-	-	-	-	30	-	9	39	37	26	26	25	25	53	53	54	53	6	-	-	-	-	-	-	-	0	436
Out	0	-	-	-	-	-	-	-	-	-	-	39	39	37	26	26	25	25	53	53	54	53	6	-	-	-	-	-	-	0	436

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9832 / 2ND GIGABET ETHERNET SWITCH (2GES) (Capability Improvement)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5.000	4.800	2.900	9.000	0.000	9.000	0.000	0.000	0.000	0.000	0.000	21.700
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5.000	4.800	2.900	9.000	0.000	9.000	0.000	0.000	0.000	0.000	0.000	21.700
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5.000	4.800	2.900	9.000	0.000	9.000	0.000	0.000	0.000	0.000	0.000	21.700

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The A-10 is pursuing the acquisition and integration of a Second Gigabit Ethernet Switch (2GES) for the A-10C aircraft. Concept of Operations are changing, requiring more traffic to pass through an Ethernet port taking some of the load off the 1553 Bus. Only one port is available on the existing A-10C Gigabit Ethernet Switch (GES). This limits our capability to add High Resolution Display System (HRDS), 3-Dimensional Audio (3D-Audio), ARC-210 Generation 6 radios that are mandated and will also meet the SATCOM MUOS mandate. The 2nd GES is required to meet these funded program needs and mandates successfully. The increased GES ports will provide high definition display of targeting pod video to increase operator response time enabling even further identification of target acquisition coupled with the HRDS system. The 3D-Audio provides the operator a 3-dimensional audio perspective of the battlefield drastically increasing response times based off audio cues received in 3-dimensional space. ARC-210 meets mandates and revitalizes the aging no longer supported ARC-210 generation 4 radios.

The AFRC is leading the way for integration of a 2GES. USAF Active Duty will take advantage of the AFRC integration effort and will only need to procure kits and installation as part of this effort. Our current installation will be via Depot Speed Line (DSL) combined with Contractor Field Team (CFT) at 36 aircraft a year due to limited bandwidth, CFT will complete installations at 45 in FY22 and 90 in FY23.

Requirement and funding layout updated to reflect 218 TAI (Total Aircraft Inventory).

Milestone/Development Status

Development Complete

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.800	2.900	9.000	-	9.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.800	2.900	9.000	0.000	9.000	0.000	0.000	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9832 / 2ND GIGABET ETHERNET SWITCH (2GES) (Capability Improvement)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: A-10C	Modification Type: Capability Improvement	Related RDT&E PEs: 0207131F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement												
<i>Modification Item 1 of 1:</i> Equipment (3)												
B Kits												
Recurring												
Equipment:EQUIPMENT Group B (Active)	174 / 5.000	50 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	224 / 5.300
<i>Subtotal: Recurring</i>	- / 5.000	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.300
<i>Subtotal: Equipment (3)</i>	- / 5.000	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.300
<i>Subtotal: Procurement, All Modification Items</i>	- / 5.000	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.300

Installation												
<i>Modification Item 1 of 1:</i> Equipment (3)												
	- / -	36 / 4.500	23 / 2.900	39 / 9.000	- / -	39 / 9.000	- / -	- / -	- / -	- / -	- / -	98 / 16.400
<i>Subtotal: Installation</i>	- / -	36 / 4.500	23 / 2.900	39 / 9.000	- / -	39 / 9.000	- / -	- / -	- / -	- / -	- / -	98 / 16.400

Total												
Total Cost (Procurement + Support + Installation)	5.000	4.800	2.900	9.000	0.000	9.000	0.000	0.000	0.000	0.000	0.000	21.700

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9832 / 2ND GIGABET ETHERNET SWITCH (2GES) (Capability Improvement)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: Equipment (3)

Manufacturer Information

Manufacturer Name: Kihomac	Manufacturer Location: Layton, UT
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

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

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	- / -	36 / 4.500	23 / 2.900	39 / 9.000	- / -	39 / 9.000	- / -	- / -	- / -	- / -	- / -	98 / 16.400
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	36 / 4.500	23 / 2.900	39 / 9.000	- / -	39 / 9.000	- / -	- / -	- / -	- / -	- / -	98 / 16.400

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	0	-	-	-	36	0	0	11	12	11	11	10	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	98
Out	0	-	-	-	-	5	15	16	11	12	11	11	10	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	98

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG
---	--

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207610F
--	---	---

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	68.027	28.401	68.955	10.309	-	10.309	90.575	1.859	1.891	1.932	-	271.949
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	68.027	28.401	68.955	10.309	-	10.309	90.575	1.859	1.891	1.932	-	271.949
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	68.027	28.401	68.955	10.309	-	10.309	90.575	1.859	1.891	1.932	-	271.949

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Battlefield Airborne Communication Node (BACN) provides a Combatant Commander (CCDR) flexible, long-endurance, responsive airborne communications capability. BACN provides a dedicated airborne capability to conduct voice bridging/translation, Tactical Data Link (TDL) gateway, and TDL relay functions for beyond-line-of-sight (BLOS) data communications. Funding for this exhibit contained in PE 0207610F and PE 0207238F.

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 to civilian authorities.

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
E011A0 / E-11 BACN/HAG

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207610F

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	1 / E-11 Mods (Other)		A		- / 68.027	- / 28.401	- / 68.955	- / 10.309	- / 0.000	- / 10.309
P-40	Total Gross/Weapon System Cost				- / 68.027	- / 28.401	- / 68.955	- / 10.309	- / -	- / 10.309

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	1 / E-11 Mods (Other)		A		- / 90.575	- / 1.859	- / 1.891	- / 1.932	- / -	- / 271.949
P-40	Total Gross/Weapon System Cost				- / 90.575	- / 1.859	- / 1.891	- / 1.932	- / -	- / 271.949

*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:
BACN includes the payload, its host platforms, and associated ground systems. The program is currently in the Operations and Support (O&S) Phase of the Life Cycle Management System. As mandates/ requirements emerge for new hardware and software capabilities that improve system performance, external time references, interoperability and open mission system technologies, BACN will host the integration of these and future emerging technologies, such as, but not limited to, High Capacity Backbone (HCB), Supplemental Type Certs (STC), and Protected Tactical Waveform (PTW).

Funding will be used to address Diminishing Manufacturing Sources (DMS) Issues. This may include modifications required for enhanced capability and improvements to system reliability and maintainability. Safety of flight considerations, including but not limited to, performance, aircraft structural integrity, availability, and continuity of service requirements for long range reference, local area reference, and landing/ terminal reference.

As Combatant Commanders needs emerge in multiple AOR's, additional procurement of BACN aircraft platforms will be critical to meet these taskings. This will include, but not be limited to, standardization of avionics baseline and the production of all Supplemental Type Certificates of the most up to date configurations of the fleet. This effort includes Military GPS, Advanced Position, Navigation, and Timing (PNT) systems, communication systems/capabilities and any additional mandates levied on the BACN system and platforms. Funding will also be used for fulfillment of requirements in support of alteration, conversion, and modernization of the BACN fleet. In order to fulfill a worldwide rapidly deployable requirement, funding will be required to meet the Unit Type Codes (UTC) for the aircraft to operate anywhere around the globe for a minimum of 30 days.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG	Modification Number / Title: 1 / E-11 Mods

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	68.027	28.401	68.955	10.309	0.000	10.309	90.575	1.859	1.891	1.932	-	271.949
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	68.027	28.401	68.955	10.309	0.000	10.309	90.575	1.859	1.891	1.932	-	271.949
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	68.027	28.401	68.955	10.309	0.000	10.309	90.575	1.859	1.891	1.932	-	271.949

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Battlefield Airborne Communication Node (BACN) provides a Combatant Commander (CCDR) flexible, long-endurance, responsive airborne communications capability. BACN provides a dedicated airborne capability to conduct voice bridging/translation, Tactical Data Link (TDL) gateway, emerging capabilities, and TDL relay functions for beyond-line-of-sight (BLOS) data communications.

BACN includes the payload, its host platforms, and associated ground systems. The program is currently in the Operations and Support (O&S) Phase of the Life Cycle Management System. As requirements emerge for new hardware and software capabilities that improve system performance such as, external time references, interoperability and open mission system technologies. BACN will host the integration of these and future communication technologies. Funding will be used to address Diminishing Manufacturing Sources (DMS) Issues. This may include modifications required for enhanced capability and improvements to system reliability and maintainability. Safety of flight considerations, including but not limited to, performance, aircraft structural integrity, availability, and continuity of service requirements for long range reference, local area reference, and landing/terminal reference. This effort includes Military GPS, advanced navigation systems and any additional mandates levied on the BACN system and platforms.

Funding supports procurement of BACN weapons system provisioning supplies necessary to execute the current and future BACN operations and support the BACN product strategy.

Milestone/Development Status

-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG					Modification Number / Title: 1 / E-11 Mods			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Models of Systems Affected: E-11A				Modification Type: Other				Related RDT&E PEs: 0207610F				
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: BACN Aircraft INSTALL KITS												
A Kits												
Recurring												
BACN Aircraft INSTALL KITS:INSTALL KITS Group A (Active)	- / -	- / -	2 / 20.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 20.550
<i>Subtotal: Recurring</i>	- / -	- / -	- / 20.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.550
<i>Subtotal: BACN Aircraft INSTALL KITS</i>	- / -	- / -	- / 20.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.550
Modification Item 2 of 9: BACN Payload												
A Kits												
Recurring												
BACN Payload:INSTALL KITS Group A (Active)	1 / 10.000	1 / 10.591	2 / 22.364	1 / 10.309	- / -	1 / 10.309	1 / 11.250	- / -	- / -	- / -	- / -	6 / 64.514
<i>Subtotal: Recurring</i>	- / 10.000	- / 10.591	- / 22.364	- / 10.309	- / -	- / 10.309	- / 11.250	- / -	- / -	- / -	- / -	- / 64.514
<i>Subtotal: BACN Payload</i>	- / 10.000	- / 10.591	- / 22.364	- / 10.309	- / -	- / 10.309	- / 11.250	- / -	- / -	- / -	- / -	- / 64.514
Modification Item 3 of 9: E-11A IFF												
A Kits												
Recurring												
E-11A IFF:INSTALL KITS Group A (Active)	- / -	- / -	2 / 5.928	- / -	- / -	- / -	1 / 3.250	- / -	- / -	- / -	- / -	3 / 9.178
<i>Subtotal: Recurring</i>	- / -	- / -	- / 5.928	- / -	- / -	- / -	- / 3.250	- / -	- / -	- / -	- / -	- / 9.178
<i>Subtotal: E-11A IFF</i>	- / -	- / -	- / 5.928	- / -	- / -	- / -	- / 3.250	- / -	- / -	- / -	- / -	- / 9.178
Modification Item 4 of 9: E-11A MiIGPS												
A Kits												
Recurring												
E-11A MiIGPS:INSTALL KITS Group A (Active)	4 / 13.903	- / -	2 / 10.556	- / -	- / -	- / -	1 / 6.345	- / -	- / -	- / -	- / -	7 / 30.804
<i>Subtotal: Recurring</i>	- / 13.903	- / -	- / 10.556	- / -	- / -	- / -	- / 6.345	- / -	- / -	- / -	- / -	- / 30.804
<i>Subtotal: E-11A MiIGPS</i>	- / 13.903	- / -	- / 10.556	- / -	- / -	- / -	- / 6.345	- / -	- / -	- / -	- / -	- / 30.804
Modification Item 5 of 9: Engines												
A Kits												
Recurring												
Engines:INSTALL KITS Group A (Active)	4 / 40.194	2 / 17.810	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 58.004
<i>Subtotal: Recurring</i>	- / 40.194	- / 17.810	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 58.004
<i>Subtotal: Engines</i>	- / 40.194	- / 17.810	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 58.004

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG						Modification Number / Title: 1 / E-11 Mods		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Models of Systems Affected: E-11A				Modification Type: Other				Related RDT&E PEs: 0207610F				
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 9: Low Cost Mods												
A Kits												
Recurring												
Low Cost Mods:INSTALL KITS Group A (Active)	1 / 1.463	- / -	- / -	- / -	- / -	- / -	4 / 6.725	- / -	- / -	- / -	- / -	5 / 8.188
<i>Subtotal: Recurring</i>	- / 1.463	- / -	- / -	- / -	- / -	- / -	- / 6.725	- / -	- / -	- / -	- / -	- / 8.188
<i>Subtotal: Low Cost Mods</i>	- / 1.463	- / -	- / -	- / -	- / -	- / -	- / 6.725	- / -	- / -	- / -	- / -	- / 8.188
Modification Item 7 of 9: Platform Support Equipment												
A Kits												
Recurring												
Platform Support Equipment:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	4 / 42.899	- / -	- / -	- / -	- / -	4 / 42.899
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.899	- / -	- / -	- / -	- / -	- / 42.899
<i>Subtotal: Platform Support Equipment</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.899	- / -	- / -	- / -	- / -	- / 42.899
Modification Item 8 of 9: Protected Tactical Waveform (PTW)												
A Kits												
Recurring												
Protected Tactical Waveform (PTW):INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	4 / 6.836	- / -	- / -	- / -	- / -	4 / 6.836
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.836	- / -	- / -	- / -	- / -	- / 6.836
<i>Subtotal: Protected Tactical Waveform (PTW)</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.836	- / -	- / -	- / -	- / -	- / 6.836
Modification Item 9 of 9: Service Bulletins												
A Kits												
Recurring												
Service Bulletins:INSTALL KITS Group A (Active)	- / -	- / -	1 / 4.800	- / -	- / -	- / -	1 / 5.845	1 / 1.859	1 / 1.891	1 / 1.932	- / -	5 / 16.327
<i>Subtotal: Recurring</i>	- / -	- / -	- / 4.800	- / -	- / -	- / -	- / 5.845	- / 1.859	- / 1.891	- / 1.932	- / -	- / 16.327
<i>Subtotal: Service Bulletins</i>	- / -	- / -	- / 4.800	- / -	- / -	- / -	- / 5.845	- / 1.859	- / 1.891	- / 1.932	- / -	- / 16.327
<i>Subtotal: Procurement, All Modification Items</i>	- / 65.560	- / 28.401	- / 64.198	- / 10.309	- / -	- / 10.309	- / 83.150	- / 1.859	- / 1.891	- / 1.932	- / -	- / 257.300
Support (All Modification Items)												
PMA - Contractor Services	- / 2.467	- / -	- / 4.757	- / -	- / -	- / -	- / 17.425	- / -	- / -	- / -	- / -	- / 14.649
<i>Subtotal: Support</i>	- / 2.467	- / -	- / 4.757	- / -	- / -	- / -	- / 17.425	- / -	- / -	- / -	- / -	- / 14.649
Installation												

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 **P-1 Line Item Number / Title:** E011A0 / E-11 BACN/HAG **Modification Number / Title:** 1 / E-11 Mods

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

Models of Systems Affected: E-11A **Modification Type:** Other **Related RDT&E PEs:** 0207610F

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 1 of 9: BACN Aircraft INSTALL KITS	- / -	- / -	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000
<i>Subtotal: Installation</i>	- / -	- / -	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000
Total												
Total Cost (Procurement + Support + Installation)	68.027	28.401	68.955	10.309	0.000	10.309	90.575	1.859	1.891	1.932	-	271.949

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG	Modification Number / Title: 1 / E-11 Mods
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 9: BACN Aircraft INSTALL KITS

Manufacturer Information

Manufacturer Name: Northrop Grumman Manufacturer Location: Various

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 3

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 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	0	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2
Out	0	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG			Modification Number / Title: 1 / E-11 Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 2 of 9: BACN Payload							
Manufacturer Information							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	May 2021	Jan 2022	Jan 2023	Jan 2024			
Delivery Dates	Aug 2021	Apr 2022	Apr 2023	Apr 2024			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 6		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG			Modification Number / Title: 1 / E-11 Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 3 of 9: E-11A IFF							
Manufacturer Information							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Jan 2022		Jan 2024			
Delivery Dates		Apr 2022		Apr 2024			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 3		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG			Modification Number / Title: 1 / E-11 Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 4 of 9: E-11A MilGPS							
Manufacturer Information							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Jan 2022		Jun 2024			
Delivery Dates		Apr 2022		Sep 2024			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 7		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG			Modification Number / Title: 1 / E-11 Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 5 of 9: Engines							
Manufacturer Information							
Manufacturer Name: Rolls Royce				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jan 2021						
Delivery Dates	Apr 2021						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 6		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG			Modification Number / Title: 1 / E-11 Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 6 of 9: Low Cost Mods							
Manufacturer Information							
Manufacturer Name: Unknown				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates				Feb 2024			
Delivery Dates				Feb 2024			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 5		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG			Modification Number / Title: 1 / E-11 Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 7 of 9: Platform Support Equipment							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates				Jan 2024			
Delivery Dates				Apr 2024			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 4		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG			Modification Number / Title: 1 / E-11 Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 8 of 9: Protected Tactical Waveform (PTW)							
Manufacturer Information							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Middle River, MD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates				May 2024			
Delivery Dates				Aug 2024			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 4		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG			Modification Number / Title: 1 / E-11 Mods	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 9 of 9: Service Bulletins							
Manufacturer Information							
Manufacturer Name: Unknown				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Jan 2022		Jan 2024	Jan 2025	Jan 2026	Jan 2027
Delivery Dates		Jan 2022		Jan 2024	Jan 2025	Jan 2026	Jan 2027
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 5		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F01500 / F-15
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207130F, 0207134F, 0207445F, 0809731F	Other Related Program Elements: 0207130F, 0207134F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,239.271	161.594	178.953	194.379	-	194.379	34.729	29.478	114.579	24.705	399.839	5,377.527
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,239.271	161.594	178.953	194.379	-	194.379	34.729	29.478	114.579	24.705	399.839	5,377.527
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,239.271	161.594	178.953	194.379	-	194.379	34.729	29.478	114.579	24.705	399.839	5,377.527

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	16.738	10.600	4.965	-	4.965	-	-	-	-	-	32.303
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the F-15 aircraft. The F-15C/D is a twin engine (F-15C single seat; F-15D dual seat) supersonic, all-weather, day/night, air-superiority fighter. The F-15E is a twin engine, two seat, supersonic dual-role, day/night, all-weather, deep interdiction fighter with multi-role air-to-air capabilities. The overall goals of the budgeted modifications are to improve operational capability, reliability and maintainability, and flight safety. The specific modifications budgeted and programmed are below.

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.

MIDS-JTRS integrates and installs a new Link-16 system in compliance with the National Security Agency's crypto modernization mandate (1 January 2022) and an Federal Aviation Administration mandate (2025) on frequency remapping. As of 1 Jan 22, (8) F-15C and (52) F-15E model a/c met the NSA mandate. As of 16 March 22 (post-mandate), a total of (2) F-15C and (10) F-15E model a/c were installed with MIDS-JTRS. Additionally, MIDS-JTRS is aware of the Full Operational Capabilities (FOC) need date of 31 Dec 2028 which includes the BU3 retrofit/upgrade and Ethernet rewiring to bring MIDS-JTRS users out of the "disadvantaged user category."

Funding for this exhibit is contained in PEs 0207130F, 0207134F, 0207445F, and 0809731F.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	156.920	172.153	180.379	-	180.379	34.729	29.478	114.579
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.674	6.800	14.000	-	14.000	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F01500 / F-15
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207130F, 0207134F, 0207445F, 0809731F	Other Related Program Elements: 0207130F, 0207134F
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	161.594	178.953	194.379	-	194.379	34.729	29.478	114.579	24.705

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
F01500 / F-15

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207130F, 0207134F, 0207445F, 0809731F **Other Related Program Elements:** 0207130F, 0207134F

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-40a***	1203 / F-15 C/D Secondary Power System (SPS) (Reliability & Maintainability)				- / 7.492	- / -	- / -	- / -	- / -	- / -
P-40a***	1205 / :Advanced Display Core Processor, ADCP II-C (Reliability & Maintainability)				- / 179.443	- / 1.474	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a***	1206 / F-15C Infrared Search and Track (IRST) (Capability Improvement)				- / 125.545	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a***	1209 / F-15 C/D Flight Data Recorder (FDR) (Capability Improvement)				- / 24.828	- / -	- / -	- / -	- / -	- / -
P-40a***	1210 / F-15E Flight Data Recorder (FDR) (Capability Improvement)				- / 142.473	- / -	- / -	- / -	- / -	- / -
P-40a***	6158 / F-15C/D APG-63(V)3 radar upgrade (Capability Improvement)				- / 1,356.639	- / -	- / -	- / -	- / -	- / -
P-40a***	8353 / F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM (Reliability & Maintainability)				- / 104.524	- / -	- / -	- / -	- / -	- / -
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Service Life Extension)				- / 7.943	- / 0.103	- / 0.175	- / 0.246	- / -	- / 0.246
P-40a***	8754 / F-15C/D IFF Mode 5 (Reliability & Maintainability)				- / 51.533	- / -	- / -	- / -	- / -	- / -
P-40a***	8755 / F-15E IFF MODE 5 (Reliability & Maintainability)				- / 61.338	- / 2.080	- / 0.177	- / 0.168	- / -	- / 0.168
P-40a***	8756 / F-15C/D Link 16 Cryptographic Modernization (Capability Improvement)				- / 0.002	- / -	- / -	- / -	- / -	- / -
P-40a***	8794 / F-15C/D Beyond Line Of Sight Communications (Capability Improvement)				- / 54.428	- / -	- / -	- / -	- / -	- / -
P-40a***	8797 / F-15C Passive Attack Sensor System (Capability Improvement)				- / 28.577	- / -	- / -	- / -	- / -	- / -
P-40a***	8798 / 5th to 4th Gen Gateway (Capability Improvement)				- / 3.698	- / -	- / -	- / -	- / -	- / -
P-40a***	8799 / F-15C MIDS JTRS (Capability Improvement)				- / 68.340	- / 8.305	- / -	- / -	- / -	- / -
P-40a***	8806 / F-15 C/D Cabin Pressure Indicator (Safety)				- / 2.773	- / -	- / -	- / -	- / -	- / -
P-40a***	8807 / F-15 E Cabin Pressure Indicator (Safety)				- / 15.893	- / -	- / -	- / -	- / -	- / -
P-40a***	8810 / F-15E APG-82(V)1 Common Config (Capability Improvement)				- / 49.803	- / 12.000	- / 4.954	- / -	- / -	- / -
P-40a***	8811 / F-15E SATCOM UON (Other)				- / 17.700	- / -	- / -	- / -	- / -	- / -
P-40a***	8813 / F-15E B61 A/C Umbilical (Capability Improvement)				- / 0.542	- / -	- / -	- / -	- / -	- / -
P-40a***	8815 / F-15C Simulator Upgrade (Capability Improvement)				- / 15.000	- / -	- / -	- / -	- / -	- / -
P-40a***	8816 / F-15C/D APG-63(V)3 Common Config (Reliability & Maintainability)				- / 5.297	- / -	- / 0.896	- / 0.037	- / -	- / 0.037
P-40a***	8825 / F-15E M Code (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999U / LOW COST RETROFIT MODS (Service Life Extension)				- / 7.267	- / 0.001	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 5.790	- / -	- / 0.001	- / 0.008	- / -	- / 0.008
P-3a	1202 / F-15E Radar Modernization Program APG-82(V)1 (Capability Improvement)		A		- / 1,660.422	- / 110.426	- / 52.073	- / 24.000	- / 0.000	- / 24.000

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
F01500 / F-15

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207130F, 0207134F, 0207445F, 0809731F **Other Related Program Elements:** 0207130F, 0207134F

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	1 / Advanced Display Core Processor, ADCP II-E (Reliability & Maintainability)		A		- / 145.964	- / 0.453	- / 39.771	- / 36.899	- / 0.000	- / 36.899
P-3a	8800 / F-15E MIDS JTRS (Capability Improvement)		B		- / 61.867	- / 20.419	- / 39.223	- / 28.117	- / 0.000	- / 28.117
P-3a	8801 / F-15 C/D SLEP Longerons (Service Life Extension)		B		- / 34.150	- / 6.333	- / 25.489	- / 32.039	- / 0.000	- / 32.039
P-3a	8804 / F-15 F-15 E/MUOS (Capability Improvement)		B		- / -	- / -	- / 8.667	- / 33.533	- / 0.000	- / 33.533
P-3a	8817 / F-15E DTM II (Reliability & Maintainability)		B		- / 0.000	- / 0.000	- / 7.527	- / 39.332	- / 0.000	- / 39.332
P-40	Total Gross/Weapon System Cost				- / 4,239.271	- / 161.594	- / 178.953	- / 194.379	- / -	- / 194.379

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-40a***	1203 / F-15 C/D Secondary Power System (SPS) (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 7.492
P-40a***	1205 / Advanced Display Core Processor, ADCP II-C (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 180.917
P-40a***	1206 / F-15C Infrared Search and Track (IRST) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 125.545
P-40a***	1209 / F-15 C/D Flight Data Recorder (FDR) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 24.828
P-40a***	1210 / F-15E Flight Data Recorder (FDR) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 142.473
P-40a***	6158 / F-15C/D APG-63(V)3 radar upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 1,356.639
P-40a***	8353 / F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 104.524
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / 8.467
P-40a***	8754 / F-15C/D IFF Mode 5 (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 51.533
P-40a***	8755 / F-15E IFF MODE 5 (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 63.763
P-40a***	8756 / F-15C/D Link 16 Cryptographic Modernization (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 0.002
P-40a***	8794 / F-15C/D Beyond Line Of Sight Communications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 54.428
P-40a***	8797 / F-15C Passive Attack Sensor System (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 28.577
P-40a***	8798 / 5th to 4th Gen Gateway (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 3.698
P-40a***	8799 / F-15C MIDS JTRS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 76.645
P-40a***	8806 / F-15 C/D Cabin Pressure Indicator (Safety)				- / -	- / -	- / -	- / -	- / -	- / 2.773
P-40a***	8807 / F-15 E Cabin Pressure Indicator (Safety)				- / -	- / -	- / -	- / -	- / -	- / 15.893
P-40a***	8810 / F-15E APG-82(V)1 Common Config (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 66.757

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
F01500 / F-15

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207130F, 0207134F, 0207445F, 0809731F **Other Related Program Elements:** 0207130F, 0207134F

Line Item MDAP/MAIS Code: N/A

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-40a***	8811 / F-15E SATCOM UON (Other)				- / -	- / -	- / -	- / -	- / -	- / 17.700
P-40a***	8813 / F-15E B61 A/C Umbilical (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 0.542
P-40a***	8815 / F-15C Simulator Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 15.000
P-40a***	8816 / F-15C/D APG-63(V)3 Common Config (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 6.230
P-40a***	8825 / F-15E M Code (Reliability & Maintainability)				- / -	- / -	- / 16.493	- / 16.891	- / 97.440	- / 130.824
P-40a***	99999U / LOW COST RETROFIT MODS (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / 7.268
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 5.799
P-3a	1202 / F-15E Radar Modernization Program APG-82(V)1 (Capability Improvement)			A	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 1,846.921
P-3a	1 / Advanced Display Core Processor, ADCP II-E (Reliability & Maintainability)			A	- / 12.927	- / 0.000	- / -	- / -	- / -	- / 236.014
P-3a	8800 / F-15E MIDS JTRS (Capability Improvement)			B	- / 10.531	- / 8.133	- / 37.064	- / 3.248	- / 302.399	- / 511.001
P-3a	8801 / F-15 C/D SLEP Longerons (Service Life Extension)			B	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 98.011
P-3a	8804 / F-15 F-15 E/MUOS (Capability Improvement)			B	- / 11.271	- / 21.345	- / 61.022	- / 4.566	- / 0.000	- / 140.404
P-3a	8817 / F-15E DTM II (Reliability & Maintainability)			B	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 46.859
P-40	Total Gross/Weapon System Cost				- / 34.729	- / 29.478	- / 114.579	- / 24.705	- / 399.839	- / 5,377.527

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,660.422	110.426	52.073	24.000	0.000	24.000	0.000	0.000	0.000	-	-	1,846.921
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,660.422	110.426	52.073	24.000	0.000	24.000	0.000	0.000	0.000	-	-	1,846.921
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,660.422	110.426	52.073	24.000	0.000	24.000	0.000	0.000	0.000	-	-	1,846.921

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	17.765	6.218	5.350	4.050	-	4.050	-	-	-	-	-	33.383
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

F-15E Radar Modernization Program (RMP), designated the APG-82(V)1, replaces the legacy radar using existing technology from other DOD platforms. It solves parts obsolescence problems and provides improved reliability and performance (increased synthetic aperture radar (SAR) range and resolution), including air-to-air and air-to-ground modes. Also provides for future growth. Total aircraft requirement: 218. This program funded Research Development Test and Evaluation (RDT&E) in PE 0207134F. Requirements document: F-15E Radar Modernization Program CDD dated 21 March 2005. In Aug 2008, AF/ASRD again reviewed the Capabilities Production Document (CPD) requirement and determined it was no longer necessary since the operational requirements in the Capabilities Development Document were still valid and the program had already entered MS C/LRIP.

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign. DMSMS costs are included in Group B NRE; SE/PM costs are include in the Group B recurring; and Depot Costs are included in Support Equipment. Other Government Costs include; DMS, NRE, contractor installs, PDM installs, ICS, Field Service Representatives (FSR) and transition to Air Force Engineering and Technical Support (AFETS).

Milestone/Development Status

Development is complete.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	110.426	52.073	24.000	-	24.000	0.000	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	110.426	52.073	24.000	0.000	24.000	0.000	0.000	0.000	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01500 / F-15				Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1					
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: F-15E			Modification Type: Capability Improvement				Related RDT&E PEs: 0207134F						
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> APG-82(v)1													
A Kits													
Recurring													
APG-82(v)1:INSTALL KITS Group A (Active)	203 / 294.103	15 / 19.489	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	218 / 313.592	
<i>Subtotal: Recurring</i>	- / 294.103	- / 19.489	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 313.592	
B Kits													
Recurring													
APG-82(v)1:EQUIPMENT Group B (Active)	203 / 910.625	15 / 67.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	218 / 978.075	
<i>Subtotal: Recurring</i>	- / 910.625	- / 67.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 978.075	
<i>Subtotal: APG-82(v)1</i>	- / 1,204.728	- / 86.939	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,291.667	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1,204.728	- / 86.939	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,291.667	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 144.135	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 144.135	
OTHER GOVT	- / 22.186	- / -	- / 25.372	- / 24.000	- / -	- / 24.000	- / -	- / -	- / -	- / -	- / -	- / 71.558	
Change Orders	- / 197.421	- / -	- / 0.833	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 98.254	
Data	- / 13.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.295	
Type 1 Training	- / 0.501	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.501	
SUPPORT-EQUIP	- / 14.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.480	
ICS-Labor	- / 157.859	- / 14.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 62.059	
PMA - Other Gov't Costs	- / 23.115	- / 1.503	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.618	
<i>Subtotal: Support</i>	- / 372.992	- / 5.703	- / 26.205	- / 24.000	- / -	- / 24.000	- / -	- / -	- / -	- / -	- / -	- / 428.900	
Installation													
<i>Modification Item 1 of 1:</i> APG-82(v)1	134 / 82.702	30 / 17.784	25 / 25.868	20 / 0.000	- / -	20 / 0.000	9 / 0.000	- / -	- / -	- / -	- / -	218 / 126.354	
<i>Subtotal: Installation</i>	134 / 82.702	30 / 17.784	25 / 25.868	20 / -	- / -	20 / -	9 / -	- / -	- / -	- / -	- / -	218 / 126.354	
Total													
Total Cost (Procurement + Support + Installation)	1,660.422	110.426	52.073	24.000	0.000	24.000	0.000	0.000	0.000	-	-	1,846.921	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: APG-82(v)1

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: El Segundo CA/Forest MS
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 18

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

Installation Information

Method of Implementation: Contract Field Team

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	134 / 82.702	30 / 17.784	25 / 18.788	14 / 0.000	- / -	14 / 0.000	- / -	- / -	- / -	- / -	- / -	203 / 119.274
FY 2021	- / -	- / -	0 / 7.080	6 / 0.000	- / -	6 / 0.000	9 / 0.000	- / -	- / -	- / -	- / -	15 / 7.080
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	134 / 82.702	30 / 17.784	25 / 25.868	20 / 0.000	- / -	20 / 0.000	9 / 0.000	- / -	- / -	- / -	- / -	218 / 126.354

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	134	7	7	8	8	6	6	6	7	5	5	5	5	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	0	218
Out	134	7	7	8	8	6	6	6	7	5	5	5	5	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	0	218

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1 / Advanced Display Core Processor, ADCP II-E

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	145.964	0.453	39.771	36.899	0.000	36.899	12.927	0.000	-	-	-	236.014
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	145.964	0.453	39.771	36.899	0.000	36.899	12.927	0.000	-	-	-	236.014
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	145.964	0.453	39.771	36.899	0.000	36.899	12.927	0.000	-	-	-	236.014

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	13.120	6.600	3.400	-	-	-	-	-	-	-	-	23.120
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-15E requires a replacement Advanced Display Core Processor (ADCP II) to meet future and projected subsystem demands. The ADCP II program will equip the F-15E, including tail number 86-0184, with a central processor with sufficient memory, processing throughput, and Input/Output bandwidth to meet the Operational Flight Program growth requirements of Suite 8 and beyond, and to support other major platform modernization upgrades such as EPAWSS. The increased capability of ADCP II will also enable the F-15E to fully exploit the APG-82(V)1 radar capabilities, to include increased target tracks, mode simultaneity, and increased track data. The ADCP II is required to meet all APG-82(V)1 key system attributes. ADCP II is an enabler for the MIDS-JTRS installations and mandates. ADCP II is also an enabler for MUOS/SATURN, DTM II and Digital Color Display; as well as new platforms, such as the F-15EX and FMS aircraft.

Requirements: AF Form 1067 approved July 2012
DT&E 4Q2016; FDE 4Q2017; MS C: 4Q2017; FRPD 2Q2021

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign.

DMSMS costs are included in Group B recurring; SE/PM costs are include in the Group B recurring; and Depot Costs are included in the Other Govt.

Milestone/Development Status

Critical Design Review (CDR) completed 4QFY2013, Milestone B completed 1QFY2014. Milestone C completed 4QFY2017, Full Rate Production Decision (FRPD) completed 2QFY2021.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.453	39.771	36.899	-	36.899	12.927	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.453	39.771	36.899	0.000	36.899	12.927	0.000	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 1 / Advanced Display Core Processor, ADCP II-E			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: F-15E				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207134F					
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)	
RDT&E PE #													
0207134F	- / 196.483	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 196.483	
Procurement													
Modification Item 1 of 1: ADCP II E													
A Kits													
Recurring													
ADCP II E:INSTALL KITS Group A (Active)	105 / 1.372	- / -	53 / 0.761	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	158 / 2.133	
<i>Subtotal: Recurring</i>	- / 1.372	- / -	- / 0.761	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.133	
B Kits													
Recurring													
ADCP II E:EQUIPMENT Group B (Active)	105 / 105.303	- / -	53 / 26.503	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	158 / 131.806	
<i>Subtotal: Recurring</i>	- / 105.303	- / -	- / 26.503	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 131.806	
<i>Subtotal: ADCP II E</i>	- / 106.675	- / -	- / 27.264	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 133.939	
<i>Subtotal: Procurement, All Modification Items</i>	- / 106.675	- / -	- / 27.264	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 133.939	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 6.808	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.808	
Type 1 Training	- / 0.086	- / -	- / 0.542	- / 0.220	- / -	- / 0.220	- / -	- / -	- / -	- / -	- / -	- / 0.848	
Change Orders	- / 2.833	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.833	
Data	- / 4.203	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.203	
SUPPORT-EQUIP	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	
ICS-Labor	- / 4.527	- / -	- / 10.435	- / 34.979	- / -	- / 34.979	- / 12.927	- / -	- / -	- / -	- / -	- / 62.868	
OTHER GOVT	- / 12.484	- / 0.453	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.037	
PMA - Other Gov't Costs	- / 8.238	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.238	
<i>Subtotal: Support</i>	- / 39.179	- / 0.453	- / 11.077	- / 35.199	- / -	- / 35.199	- / 12.927	- / -	- / -	- / -	- / -	- / 98.835	
Installation													
Modification Item 1 of 1: ADCP II E	11 / 0.110	49 / 0.000	45 / 1.430	53 / 1.700	- / -	53 / 1.700	- / -	- / -	- / -	- / -	- / -	158 / 3.240	
<i>Subtotal: Installation</i>	11 / 0.110	49 / -	45 / 1.430	53 / 1.700	- / -	53 / 1.700	- / -	- / -	- / -	- / -	- / -	158 / 3.240	
Total													
Total Cost (Procurement + Support + Installation)	145.964	0.453	39.771	36.899	0.000	36.899	12.927	0.000	-	-	-	236.014	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1 / Advanced Display Core Processor, ADCP II-E

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: ADCP II E

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 15

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

Installation Information

Method of Implementation: Contract Field Team

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	11 / 0.110	49 / 0.000	45 / 1.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 1.540
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	53 / 1.700	- / -	53 / 1.700	- / -	- / -	- / -	- / -	- / -	53 / 1.700
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 0.110	49 / 0.000	45 / 1.430	53 / 1.700	- / -	53 / 1.700	- / -	- / -	- / -	- / -	- / -	158 / 3.240

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	14	22	11	2	11	11	11	12	13	13	13	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	158
Out	11	14	22	11	2	11	11	11	12	13	13	13	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	158

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8800 / F-15E MIDS JTRS

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	61.867	20.419	39.223	28.117	0.000	28.117	10.531	8.133	37.064	3.248	302.399	511.001
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	61.867	20.419	39.223	28.117	0.000	28.117	10.531	8.133	37.064	3.248	302.399	511.001
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	61.867	20.419	39.223	28.117	0.000	28.117	10.531	8.133	37.064	3.248	302.399	511.001

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This upgrade integrates and installs a new Link 16 system on the F-15E that complies with an NSA mandate on cryptographic modernization and an FAA mandate on frequency remapping. The FAA mandate requires all fielded Link-16 terminals incorporate the frequency re-mapping capability by 2025. The F-15 also requires full ethernet capability by FY28 in accordance to Joint Requirements Oversight Council (JROC) 097-20.

In addition to meeting the two mandates, the system will significantly increase data link capacity and improve long range performance and the ability to operate in a jamming environment. It will also reduce sustainment costs due to its commonality with other DoD assets.

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign.

DMSMS costs are included in Group B NRE; SE/PM costs are included in the Group B recurring.

Milestone/Development Status

MIDS JTRS will be integrated in OFP Suite 9. Milestone C was approved June 2018.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	20.419	39.223	28.117	-	28.117	10.531	8.133	37.064	3.248
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	20.419	39.223	28.117	0.000	28.117	10.531	8.133	37.064	3.248

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 8800 / F-15E MIDS JTRS		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-15E				Modification Type: Capability Improvement				Related RDT&E PEs: 0207134F				
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)
RDT&E PE #												
0207134F	- / 90.594	- / 1.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 92.144
Procurement												
Modification Item 1 of 2: Ethernet Rewire												
A Kits												
Recurring												
Ethernet Rewire:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 9.722	- / -	185 / 62.998	217 / 72.720
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.722	- / -	- / 62.998	- / 72.720
B Kits												
Recurring												
Ethernet Rewire:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 14.273	- / -	185 / 92.485	217 / 106.758
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.273	- / -	- / 92.485	- / 106.758
Subtotal: Ethernet Rewire	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.995	- / -	- / 155.483	- / 179.478
Modification Item 2 of 2: MIDS JTRS												
A Kits												
Recurring												
MIDS JTRS:INSTALL KITS Group A (Active)	126 / 2.814	81 / 0.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	207 / 3.128
Subtotal: Recurring	- / 2.814	- / 0.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.128
B Kits												
Recurring												
MIDS JTRS:EQUIPMENT Group B (Active)	126 / 40.975	81 / 8.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	207 / 49.423
Subtotal: Recurring	- / 40.975	- / 8.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 49.423
Subtotal: MIDS JTRS	- / 43.789	- / 8.762	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 52.551
Subtotal: Procurement, All Modification Items	- / 43.789	- / 8.762	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.995	- / -	- / 155.483	- / 232.029
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / 1.124	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.124
SUPPORT-EQUIP	- / -	- / -	- / -	16 / 1.851	- / -	16 / 1.851	12 / 1.428	46 / 5.626	77 / 4.437	41 / 1.640	37 / 4.780	229 / 19.762
Change Orders	- / 8.951	- / 1.657	- / 12.750	- / 12.353	- / -	- / 12.353	- / 3.500	- / 0.307	- / 1.750	- / 0.500	- / 2.700	- / 44.468
OTHER GOVT	- / 6.176	- / 2.650	- / 11.488	- / 4.851	- / -	- / 4.851	- / 3.321	- / 1.950	- / 1.647	- / 0.725	- / 17.250	- / 40.058
ICS-Labor	- / 1.530	- / 3.084	- / 8.450	- / 0.548	- / -	- / 0.548	- / 0.500	- / 0.250	- / 0.450	- / 0.383	- / 1.270	- / 16.465
Subtotal: Support	- / 17.781	- / 7.391	- / 32.688	16 / 19.603	- / -	16 / 19.603	12 / 8.749	46 / 8.133	77 / 8.284	41 / 3.248	37 / 16.000	229 / 121.877

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01500 / F-15				Modification Number / Title: 8800 / F-15E MIDS JTRS				
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-15E				Modification Type: Capability Improvement				Related RDT&E PEs: 0207134F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Installation												
<i>Modification Item 1 of 2:</i> Ethernet Rewire	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 4.785	8 / 0.000	201 / 130.916	217 / 135.701
<i>Modification Item 2 of 2:</i> MIDS JTRS	3 / 0.297	34 / 4.266	66 / 6.535	86 / 8.514	- / -	86 / 8.514	18 / 1.782	- / -	- / -	- / -	- / -	207 / 21.394
<i>Subtotal: Installation</i>	3 / 0.297	34 / 4.266	66 / 6.535	86 / 8.514	- / -	86 / 8.514	18 / 1.782	- / -	8 / 4.785	8 / -	201 / 130.916	424 / 157.095
Total												
Total Cost (Procurement + Support + Installation)	61.867	20.419	39.223	28.117	0.000	28.117	10.531	8.133	37.064	3.248	302.399	511.001

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8800 / F-15E MIDS JTRS
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 2: Ethernet Rewire

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD

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						Jun 2026	
Delivery Dates						Jul 2026	

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.589	4 / 0.000	12 / 7.178	22 / 10.767
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	130 / 85.435	130 / 85.435
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.589	4 / 0.000	142 / 92.613	152 / 96.202

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	2	1	1	1	1	142	152
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	2	1	1	1	1	142	152

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8800 / F-15E MIDS JTRS
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

Modification Item 1 of 2: Ethernet Rewire

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)
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.196	4 / 0.000	4 / 2.393	10 / 3.589
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 35.910	55 / 35.910
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.196	4 / 0.000	59 / 38.303	65 / 39.499

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	1	1	1	1	1	1	59	65
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	1	1	1	1	1	1	59	65

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8800 / F-15E MIDS JTRS
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 2 of 2: MIDS JTRS

Manufacturer Information

Manufacturer Name: BAE Systems Manufacturer Location: Wayne, NJ

Administrative Leadtime (in Months): 12 Production Leadtime (in Months): 11

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

Installation Information

Method of Implementation: Contract Field Team

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	3 / 0.297	33 / 3.267	37 / 3.664	23 / 2.277	- / -	23 / 2.277	- / -	- / -	- / -	- / -	- / -	96 / 9.505
FY 2021	- / -	- / -	- / -	35 / 3.465	- / -	35 / 3.465	18 / 1.782	- / -	- / -	- / -	- / -	53 / 5.247
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3 / 0.297	33 / 3.267	37 / 3.664	58 / 5.742	- / -	58 / 5.742	18 / 1.782	- / -	- / -	- / -	- / -	149 / 14.752

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	3	5	6	9	13	13	12	6	6	14	15	16	13	14	4	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	149
Out	3	5	6	9	13	13	12	6	6	14	15	16	13	14	4	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	149

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 / 0.999	29 / 2.871	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 3.870

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8800 / F-15E MIDS JTRS
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

Modification Item 2 of 2: MIDS JTRS

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)
FY 2021	- / -	- / -	- / -	28 / 2.772	- / -	28 / 2.772	- / -	- / -	- / -	- / -	- / -	28 / 2.772
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	1 / 0.999	29 / 2.871	28 / 2.772	- / -	28 / 2.772	- / -	- / -	- / -	- / -	- / -	58 / 6.642

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	0	-	1	-	-	5	6	10	8	7	7	9	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	58	
Out	0	-	1	-	-	5	6	10	8	7	7	9	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	58		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8801 / F-15 C/D SLEP Longerons

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	34.150	6.333	25.489	32.039	0.000	32.039	0.000	0.000	0.000	0.000	0.000	98.011
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	34.150	6.333	25.489	32.039	0.000	32.039	0.000	0.000	0.000	0.000	0.000	98.011
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	34.150	6.333	25.489	32.039	0.000	32.039	0.000	0.000	0.000	0.000	0.000	98.011

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-15C/D Service Life Extension Program (SLEP) for the Longerons is required to address a current safety of flight issue that has grounded numerous aircraft and is resulting in an increasing mission impact. The requirement is documented via AF 1067 15-199 dated 6 Jan 16. No additional development to the existing Longerons configuration is required. Data for replacement kits is resident within the F-15 program office. This is a Group B ONLY MOD. Due to PDM pacing, installs are expected to extend into FY24. FY23 funds will be used to pay for installs extending into FY24.

Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, obsolescence issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign. DMSMS costs are included in Group B NRE; SE/PM costs are included in the Group B recurring; and Depot Costs are included in the Support Equipment.

Milestone/Development Status

This program replaces the components according to their original design. Therefore, no development effort or funding required.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.133	18.689	18.039	-	18.039	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.200	6.800	14.000	-	14.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.333	25.489	32.039	0.000	32.039	0.000	0.000	0.000	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 8801 / F-15 C/D SLEP Longerons			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-15C, F-15D				Modification Type: Service Life Extension				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Longeron Configuration A</i>													
B Kits													
Recurring													
Longeron Configuration A:EQUIPMENT Group B (Active)	63 / 9.570	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	63 / 9.570	
Longeron Configuration A:EQUIPMENT Group B (Guard)	65 / 12.790	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 12.790	
<i>Subtotal: Recurring</i>	- / 22.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.360	
<i>Subtotal: Longeron Configuration A</i>	- / 22.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.360	
<i>Subtotal: Procurement, All Modification Items</i>	- / 22.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.360	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	
SUPPORT-EQUIP	- / 2.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.417	
PMA - Other Gov't Costs	- / 2.233	- / 0.333	- / 0.077	- / 0.388	- / -	- / 0.388	- / -	- / -	- / -	- / -	- / -	- / 3.031	
Change Orders	- / 14.140	- / -	- / 11.012	- / 16.051	- / -	- / 16.051	- / -	- / -	- / -	- / -	- / -	- / 21.203	
<i>Subtotal: Support</i>	- / 8.990	- / 0.333	- / 11.089	- / 16.439	- / -	- / 16.439	- / -	- / -	- / -	- / -	- / -	- / 26.851	
Installation													
<i>Modification Item 1 of 1: Longeron Configuration A</i>	7 / 2.800	21 / 6.000	36 / 14.400	64 / 25.600	- / -	64 / 25.600	- / -	- / -	- / -	- / -	- / -	128 / 48.800	
<i>Subtotal: Installation</i>	7 / 2.800	21 / 6.000	36 / 14.400	64 / 25.600	- / -	64 / 25.600	- / -	- / -	- / -	- / -	- / -	128 / 48.800	
Total													
Total Cost (Procurement + Support + Installation)	34.150	6.333	25.489	32.039	0.000	32.039	0.000	0.000	0.000	0.000	0.000	98.011	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8801 / F-15 C/D SLEP Longerons
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Longeron Configuration A

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Robins AFB
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 18

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

Installation Information

Method of Implementation: 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	7 / 2.800	21 / 6.000	36 / 14.400	64 / 25.600	- / -	64 / 25.600	- / -	- / -	- / -	- / -	- / -	128 / 48.800
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 2.800	21 / 6.000	36 / 14.400	64 / 25.600	- / -	64 / 25.600	- / -	- / -	- / -	- / -	- / -	128 / 48.800

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	5	6	4	6	8	9	8	11	14	13	17	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	128
Out	1	2	2	3	7	6	6	6	8	19	20	17	13	-	7	8	3	-	-	-	-	-	-	-	-	-	-	-	-	0	128

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8804 / F-15 F-15 E/MUOS

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	8.667	33.533	0.000	33.533	11.271	21.345	61.022	4.566	0.000	140.404
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	8.667	33.533	0.000	33.533	11.271	21.345	61.022	4.566	0.000	140.404
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	8.667	33.533	0.000	33.533	11.271	21.345	61.022	4.566	0.000	140.404

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-15 requires SATCOM radio upgrade for Mobile User Objective System (MUOS)/Second Generation Anti-jam Tactical UHF Radio for NATO (SATURN) capability to meet mission requirements that are limited by legacy systems. The SATURN requirement is being driven by a DoD-wide mandate requiring removal of HAVE QUICK II (HQII), as a standard for Alliance communications interoperability effective 31 December 2023. SATURN is required to provide secure line of sight tactical communications and replace the legacy system. It also requires an update to crypto system to overcome obsolescence on the current KY-58.

The MUOS/SATURN program will purchase the required equipment for the F-15E's - ARC210 Generation 6 radios (RT-2036), and deliver to Boeing for the production installs. The government furnished equipment (GFE) have a 12 month lead time and will be purchased on an annual basis through the Navy to align with the install schedule. The program will comply with the NSA Crypto modernization mandates.

Milestone/Development Status

MUOS will be integrated into Suite 9.2 or later

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	8.667	33.533	-	33.533	11.271	21.345	61.022	4.566
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	8.667	33.533	0.000	33.533	11.271	21.345	61.022	4.566

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01500 / F-15				Modification Number / Title: 8804 / F-15 F-15 E/MUOS				
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Models of Systems Affected: F-15E			Modification Type: Capability Improvement				Related RDT&E PEs: 0207134F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Group B (3)												
A Kits												
Recurring												
Group B:INSTALL KITS Group A (Active)	- / -	- / -	- / -	90 / 20.790	- / -	90 / 20.790	5 / 1.220	15 / 10.870	108 / 36.570	- / -	- / -	218 / 69.450
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 20.790	- / -	- / 20.790	- / 1.220	- / 10.870	- / 36.570	- / -	- / -	- / 69.450
B Kits												
Recurring												
Group B:EQUIPMENT Group B (Active)	- / -	- / -	20 / 7.730	70 / 9.140	- / -	70 / 9.140	5 / 0.690	15 / 6.150	108 / 20.680	- / -	- / -	218 / 44.390
<i>Subtotal: Recurring</i>	- / -	- / -	- / 7.730	- / 9.140	- / -	- / 9.140	- / 0.690	- / 6.150	- / 20.680	- / -	- / -	- / 44.390
<i>Subtotal: Group B (3)</i>	- / -	- / -	- / 7.730	- / 29.930	- / -	- / 29.930	- / 1.910	- / 17.020	- / 57.250	- / -	- / -	- / 113.840
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 7.730	- / 29.930	- / -	- / 29.930	- / 1.910	- / 17.020	- / 57.250	- / -	- / -	- / 113.840
Support (All Modification Items)												
OTHER GOVT	- / -	- / -	- / 0.937	- / 3.603	- / -	- / 3.603	- / 2.681	- / 3.225	- / 2.232	- / -	- / -	- / 12.678
<i>Subtotal: Support</i>	- / -	- / -	- / 0.937	- / 3.603	- / -	- / 3.603	- / 2.681	- / 3.225	- / 2.232	- / -	- / -	- / 12.678
Installation												
<i>Modification Item 1 of 1:</i> Group B (3)												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	45 / 6.680	50 / 1.100	15 / 1.540	108 / 4.566	- / -	218 / 13.886
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	45 / 6.680	50 / 1.100	15 / 1.540	108 / 4.566	- / -	218 / 13.886
Total												
Total Cost (Procurement + Support + Installation)	-	-	8.667	33.533	0.000	33.533	11.271	21.345	61.022	4.566	0.000	140.404

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8804 / F-15 F-15 E/MUOS
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Group B (3)

Manufacturer Information

Manufacturer Name: Rockwell Collins	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	45 / 6.680	45 / 0.000	- / -	- / -	- / -	90 / 6.680
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.100	- / -	- / -	- / -	5 / 1.100
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.540	- / -	- / -	15 / 1.540
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	108 / 4.566	- / -	108 / 4.566
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	45 / 6.680	50 / 1.100	15 / 1.540	108 / 4.566	- / -	218 / 13.886

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	0	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	16	16	16	2	3	4	4	4	27	27	27	27	0	218
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	16	16	16	2	3	4	4	4	27	27	27	27	0	218

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8817 / F-15E DTM II

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	7.527	39.332	0.000	39.332	0.000	0.000	0.000	0.000	0.000	46.859
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	7.527	39.332	0.000	39.332	0.000	0.000	0.000	0.000	0.000	46.859
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	7.527	39.332	0.000	39.332	0.000	0.000	0.000	0.000	0.000	46.859

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Data Transfer Module II (DTM II) is an upgraded replacement to the current, low-memory data transfer system. Improves and supports mission planning capability and weapons employment, increases storage, replaces aging mapping system, updates interfaces, provides data encryption and delivers cyber security.

Milestone/Development Status

Continuing to procure Group A and Group 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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.527	39.332	-	39.332	0.000	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	7.527	39.332	0.000	39.332	0.000	0.000	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01500 / F-15				Modification Number / Title: 8817 / F-15E DTM II				
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Models of Systems Affected: F-15E			Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207134F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Data Transfer Module II												
A Kits												
Recurring												
Data Transfer Module II:INSTALL KITS Group A (Active)	- / -	- / -	25 / 0.337	99 / 1.338	- / -	99 / 1.338	- / -	- / -	- / -	- / -	- / -	124 / 1.675
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.337	- / 1.338	- / -	- / 1.338	- / -	- / -	- / -	- / -	- / -	- / 1.675
B Kits												
Recurring												
Data Transfer Module II:EQUIPMENT Group B (Active)	- / -	- / -	25 / 3.100	99 / 11.384	- / -	99 / 11.384	- / -	- / -	- / -	- / -	- / -	124 / 14.484
<i>Subtotal: Recurring</i>	- / -	- / -	- / 3.100	- / 11.384	- / -	- / 11.384	- / -	- / -	- / -	- / -	- / -	- / 14.484
<i>Subtotal: Data Transfer Module II</i>	- / -	- / -	- / 3.437	- / 12.722	- / -	- / 12.722	- / -	- / -	- / -	- / -	- / -	- / 16.159
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 3.437	- / 12.722	- / -	- / 12.722	- / -	- / -	- / -	- / -	- / -	- / 16.159
Support (All Modification Items)												
ICS-Labor	- / -	- / -	- / -	- / 1.900	- / -	- / 1.900	- / -	- / -	- / -	- / -	- / -	- / 1.900
PMA - Contractor Services	- / -	- / -	- / -	- / 0.099	- / -	- / 0.099	- / -	- / -	- / -	- / -	- / -	- / 0.099
OTHER GOVT	- / -	- / -	- / -	- / 17.568	- / -	- / 17.568	- / -	- / -	- / -	- / -	- / -	- / 17.568
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 9.567	- / -	- / 9.567	- / -	- / -	- / -	- / -	- / -	- / 9.567
Installation												
<i>Modification Item 1 of 1:</i> Data Transfer Module II	- / -	- / -	0 / 4.090	25 / 17.043	- / -	25 / 17.043	99 / 0.000	- / -	- / -	- / -	- / -	124 / 21.133
<i>Subtotal: Installation</i>	- / -	- / -	- / 4.090	25 / 17.043	- / -	25 / 17.043	99 / -	- / -	- / -	- / -	- / -	124 / 21.133
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	7.527	39.332	0.000	39.332	0.000	0.000	0.000	0.000	0.000	46.859

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8817 / F-15E DTM II
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: Data Transfer Module II

Manufacturer Information

Manufacturer Name: POC	Manufacturer Location: Depot
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 11

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

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	0 / 4.090	25 / 0.000	- / -	25 / 0.000	- / -	- / -	- / -	- / -	- / -	25 / 4.090
FY 2023	- / -	- / -	- / -	0 / 17.043	- / -	0 / 17.043	99 / 0.000	- / -	- / -	- / -	- / -	99 / 17.043
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	0 / 4.090	25 / 17.043	- / -	25 / 17.043	99 / 0.000	- / -	- / -	- / -	- / -	124 / 21.133

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	0	-	-	-	-	-	-	-	-	6	6	6	7	24	25	25	25	-	-	-	-	-	-	-	-	-	-	-	0	124
Out	0	-	-	-	-	-	-	-	-	6	6	6	7	24	25	25	25	-	-	-	-	-	-	-	-	-	-	-	0	124

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F01600 / F-16
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207133F, 0207445F, 0809731F	Other Related Program Elements: 0207133F, 0207445F, 0207701F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,060.529	613.382	612.408	700.455	-	700.455	564.814	698.211	767.217	694.519	1,309.076	7,020.611
Less PY Advance Procurement (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	-	-	-	0.000	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,060.529	613.382	612.408	700.455	-	700.455	564.814	698.211	767.217	694.519	1,309.076	7,020.611
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,060.529	613.382	612.408	700.455	-	700.455	564.814	698.211	767.217	694.519	1,309.076	7,020.611

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	5.470	8.019	6.949	-	6.949	6.963	6.973	7.116	-	-	41.490
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-16 is a multi-role fighter capable of employing a wide variety of nuclear and conventional weapons and missiles in both the air-to-surface and air-to-air mission areas. There are 935 aircraft in the F-16 fleet, consisting of 610 Post-Block (40/42/50/52) and 325 Pre-Block (25/30/32). The Post-Block aircraft have a service life of 8,000 Equivalent Flight Hours (EFH) and the Pre-Block have a service life of 10,800 EFH. NOTE: In FY22, the Pre-Blocks were removed from the budget FY23 and out. The average age of the fleet is 28.7 years. The F-16 provides the capacity called for in the National Defense Strategy (NDS) by supplying the USAF 45% of its fighter fleet at the highest readiness rates and lowest operating costs of any US fighter. The F-16 programs listed below also support the NDS's call to strengthen alliances by being the DoD's largest Foreign Military Sales (FMS) program servicing over 28 countries and growing. The funding described in this document directly maps to the NDS as it provides upgrades to the F-16 platform enabling the delivery of joint lethality in contested environments in the coming decades. These specific modifications budgeted and programmed are below.

Funding for AETC-MTD Trainers mod is budgeted in PE 0809731F. Funding for all other F-16 mods in this exhibit is budgeted in PE 0207133F.

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.

The AESA Radar supports the Joint Emergent Operational Need (JEON) requirement issued in March 2015 and includes improved air-to-air detect and track in support of homeland defense performing the Aerospace Control Alert (ACA) mission.

Funds may be used to address Diminishing Manufacturing Sources (DMS) issues.

Digital Radar Warning Receiver (DRWR) sub-program Integrated Viper Electronic Warfare Suite (IVEWS) previously justified in the DRWR P-3A Mod 704050 budget request (as Next Gen EW Suite Program) has been renamed and separated into IVEWS P-3A Mod 633035.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	-	-	-	-	-	-	-	-	-
Total Obligation Authority	497.613	492.122	635.736	0.000	635.736	507.996	624.897	729.177	664.943

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft		P-1 Line Item Number / Title: F01600 / F-16
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207133F, 0207445F, 0809731F	Other Related Program Elements: 0207133F, 0207445F, 0207701F

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
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	102.379	115.388	58.185	-	58.185	56.818	73.314	38.040	29.576
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.390	4.898	6.534	-	6.534	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	613.382	612.408	700.455	0.000	700.455	564.814	698.211	767.217	694.519

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F01600 / F-16

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207133F, 0207445F, 0809731F	Other Related Program Elements: 0207133F, 0207445F, 0207701F
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	633030 / Aggressors Update (Capability Improvement)				- / 8.408	- / 3.131	- / 0.000	- / -	- / 0.000	- / 0.000
P-40a***	633032 / AIFF MODE 5 (Capability Improvement)				- / 0.273	- / -	- / 13.088	- / 3.000	- / -	- / 3.000
P-40a***	633033 / M-Code (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	633037 / JHMCS (Capability Improvement)				- / -	- / -	- / -	- / 0.160	- / -	- / 0.160
P-40a***	633038 / RFC (Capability Improvement)				- / -	- / -	- / -	- / 0.415	- / -	- / 0.415
P-40a***	633039 / Heads-Up Display (HUD) (Capability Improvement)				- / -	- / -	- / 20.000	- / -	- / -	- / -
P-40a***	633041 / Anti Jam (Capability Improvement)				- / 5.000	- / -	- / -	- / -	- / -	- / -
P-40a***	633042 / Missile Warning Systems (Capability Improvement)				- / 12.000	- / -	- / -	- / -	- / -	- / -
P-40a***	661652 / Link 16 Crypto (Capability Improvement)				- / 0.139	- / -	- / -	- / -	- / -	- / -
P-40a***	704050 / Digital Radar Warning Receiver (RWR) (Capability Improvement)				- / 0.000	- / 16.187	- / -	- / 0.000	- / -	- / 0.000
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)				- / 117.703	- / 0.487	- / 0.840	- / 1.204	- / -	- / 1.204
P-40a***	866250 / F-16 TRAINING SYSTEMS (Capability Improvement)				- / 20.994	- / 42.746	- / 6.492	- / 1.089	- / -	- / 1.089
P-40a***	866251 / Full Combat Mission Training (Capability Improvement)				- / 3.128	- / -	- / -	- / 0.000	- / -	- / 0.000
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 11.760	- / 0.817	- / 0.146	- / 0.151	- / -	- / 0.151
P-3a	602148 / MMC and Display Generator Upgrade (Capability Improvement)			A	- / 0.000	- / 19.161	- / 17.573	- / 68.886	- / 0.000	- / 68.886
P-3a	602600 / F-16 LEGACY STRUCTURAL SLEP (Service Life Extension)			A	- / 94.616	- / 108.751	- / 91.600	- / 109.024	- / 0.000	- / 109.024
P-3a	618250 / Comm Suite Upgrade (Capability Improvement)			B	- / 70.752	- / 30.914	- / 59.653	- / 61.647	- / 0.000	- / 61.647
P-3a	633031 / HFLCC AGCAS (Capability Improvement)			B	- / 44.127	- / 25.217	- / 17.577	- / 28.889	- / 0.000	- / 28.889
P-3a	633034 / Secure Mission Data Systems (Capability Improvement)			B	- / -	- / -	- / -	- / 30.000	- / 0.000	- / 30.000
P-3a	633035 / IVEWS (Capability Improvement)			B	- / -	- / 0.000	- / 0.000	- / 89.751	- / 0.000	- / 89.751
P-3a	633036 / CDU (Capability Improvement)			B	- / -	- / -	- / -	- / 10.319	- / 0.000	- / 10.319
P-3a	661653 / MIDS-JTRS (Capability Improvement)			A	- / 237.913	- / 33.093	- / 0.000	- / 9.779	- / 0.000	- / 9.779
P-3a	694050 / AESA Radars (Capability Improvement)			A	- / 433.716	- / 332.878	- / 385.439	- / 286.141	- / 0.000	- / 286.141
P-40	Total Gross/Weapon System Cost				- / 1,060.529	- / 613.382	- / 612.408	- / 700.455	- / -	- / 700.455

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-40a***	633030 / Aggressors Update (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 11.539
P-40a***	633032 / AIFF MODE 5 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 16.361
P-40a***	633033 / M-Code (Capability Improvement)				- / -	- / -	- / 78.710	- / 78.556	- / 168.424	- / 325.690

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
F01600 / F-16

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207133F, 0207445F, 0809731F **Other Related Program Elements:** 0207133F, 0207445F, 0207701F

Line Item MDAP/MAIS Code: N/A

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-40a***	633037 / JHMCS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 0.160
P-40a***	633038 / RFC (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 0.415
P-40a***	633039 / Heads-Up Display (HUD) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 20.000
P-40a***	633041 / Anti Jam (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 5.000
P-40a***	633042 / Missile Warning Systems (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 12.000
P-40a***	661652 / Link 16 Crypto (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 0.139
P-40a***	704050 / Digital Radar Warning Receiver (RWR) (Capability Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 16.187
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)				- / 5.899	- / 6.008	- / 6.107	- / 6.240	- / -	- / 144.488
P-40a***	866250 / F-16 TRAINING SYSTEMS (Capability Improvement)				- / 0.738	- / 0.742	- / 0.746	- / 0.750	- / -	- / 74.297
P-40a***	866251 / Full Combat Mission Training (Capability Improvement)				- / 0.000	- / -	- / -	- / -	- / -	- / 3.128
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 0.257	- / 0.189	- / 0.830	- / 0.850	- / -	- / 15.000
P-3a	602148 / MMC and Display Generator Upgrade (Capability Improvement)		A		- / 43.318	- / 30.400	- / 41.509	- / 4.714	- / 0.000	- / 225.561
P-3a	602600 / F-16 LEGACY STRUCTURAL SLEP (Service Life Extension)		A		- / 133.515	- / 131.298	- / 80.013	- / 97.065	- / 212.604	- / 1,058.486
P-3a	618250 / Comm Suite Upgrade (Capability Improvement)		B		- / 83.615	- / 65.571	- / 61.978	- / 66.154	- / 75.337	- / 575.621
P-3a	633031 / HFLCC AGCAS (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 115.810
P-3a	633034 / Secure Mission Data Systems (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 30.000
P-3a	633035 / IVEWS (Capability Improvement)		B		- / 130.547	- / 281.975	- / 458.837	- / 390.260	- / 852.711	- / 2,204.081
P-3a	633036 / CDU (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 10.319
P-3a	661653 / MIDS-JTRS (Capability Improvement)		A		- / -	- / -	- / -	- / -	- / -	- / 280.785
P-3a	694050 / AESA Radars (Capability Improvement)		A		- / 166.925	- / 182.028	- / 38.487	- / 49.930	- / -	- / 1,875.544
P-40	Total Gross/Weapon System Cost				- / 564.814	- / 698.211	- / 767.217	- / 694.519	- / 1,309.076	- / 7,020.611

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod 633034, Secure Mission Data Systems, is a new start.
 This program, P-3A Mod 633036, CDU, is a new start.
 This program, P-3A Mod 633037, JHMCS, is a new start.
 This program, P-3A Mod 633038, RFC, is a new start.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft		P-1 Line Item Number / Title: F01600 / F-16
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207133F, 0207445F, 0809731F	Other Related Program Elements: 0207133F, 0207445F, 0207701F
Line Item MDAP/MAIS Code: N/A		

Where applicable, justification for individual modifications is provided in the P-3A exhibits.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 602148 / MMC and Display Generator Upgrade

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	19.161	17.573	68.886	0.000	68.886	43.318	30.400	41.509	4.714	0.000	225.561
Less PY Advance Procurement (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	-	-	-	-	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	19.161	17.573	68.886	0.000	68.886	43.318	30.400	41.509	4.714	0.000	225.561
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	19.161	17.573	68.886	0.000	68.886	43.318	30.400	41.509	4.714	0.000	225.561
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	0.454	2.362	7.799	6.725	-	6.725	6.847	6.973	7.116	-	-	38.276
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This modification upgrades the current F-16 core mission computer to include increased high-speed data throughput, additional memory, and adds an Ethernet High Speed Data Network (HSDN) to realize the full capabilities provided by the Active Electronically Scanned Array (AESA) radar program. This modification also incorporates the installation of remote interface panels (RIP), which allows for the transfer of mission planning loaded data. The upgraded mission computer is required because the current 1553 mux data transfer path is nearing its throughput capacity. The new Program Display Generator (PDG) allows for a fully integrated Multi-Function Display Set (MFDS) solution including Hands-on Throttle and Stick (HOTAS) integration with Sensor of Interest (SOI), format swapping and high definition video on 4x4 displays. The new PDG also provides improved display formats during dynamic maneuvers; resolves symbol freezing issues due to throughput constraints; and provides a sustainable approach to address growing DMS concerns with the current PDG.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys, or bridge buys limited to the program of record quantity.

The quantity for the program includes up to 608 buys for MMC and up to 608 buys for PDG.

Milestone/Development Status

For MMC, FY22 will continue SIL testing. Milestone C is scheduled for September FY22. DT Actual Aug 2020, OT Projected Oct 2021, IOT&E 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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.111	16.327	61.926	-	61.926	34.656	25.296	41.509	4.714
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.050	1.246	6.960	-	6.960	8.662	5.104	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	19.161	17.573	68.886	0.000	68.886	43.318	30.400	41.509	4.714

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01600 / F-16					Modification Number / Title: 602148 / MMC and Display Generator Upgrade			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs: 0207133F					
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: MMC Kit													
A Kits													
Recurring													
MMC Kit:INSTALL KITS Group A (Active)	- / -	- / -	64 / 0.033	125 / 0.063	- / -	125 / 0.063	54 / 0.027	85 / 0.430	133 / 0.068	- / -	- / -	461 / 0.621	
MMC Kit:INSTALL KITS Group A (Guard)	- / -	100 / 0.050	47 / 0.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	147 / 0.074	
Subtotal: Recurring	- / -	- / 0.050	- / 0.057	- / 0.063	- / -	- / 0.063	- / 0.027	- / 0.430	- / 0.068	- / -	- / -	- / 0.695	
B Kits													
Recurring													
MMC Kit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	78 / 6.552	- / -	78 / 6.552	100 / 8.500	156 / 13.260	127 / 10.795	- / -	- / -	461 / 39.107	
MMC Kit:EQUIPMENT Group B (Guard)	- / -	- / -	13 / 1.222	78 / 6.552	- / -	78 / 6.552	56 / 4.760	- / -	- / -	- / -	- / -	147 / 12.534	
Subtotal: Recurring	- / -	- / -	- / 1.222	- / 13.104	- / -	- / 13.104	- / 13.260	- / 13.260	- / 10.795	- / -	- / -	- / 51.641	
Subtotal: MMC Kit	- / -	- / 0.050	- / 1.279	- / 13.167	- / -	- / 13.167	- / 13.287	- / 13.690	- / 10.863	- / -	- / -	- / 52.336	
Modification Item 2 of 2: PDG Kit													
A Kits													
Recurring													
PDG Kit:INSTALL KITS Group A (Active)	- / -	125 / 0.750	156 / 0.936	88 / 0.528	- / -	88 / 0.528	14 / 0.084	78 / 0.480	- / -	- / -	- / -	461 / 2.778	
PDG Kit:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	68 / 0.408	- / -	68 / 0.408	79 / 0.480	- / -	- / -	- / -	- / -	147 / 0.888	
Subtotal: Recurring	- / -	- / 0.750	- / 0.936	- / 0.936	- / -	- / 0.936	- / 0.564	- / 0.480	- / -	- / -	- / -	- / 3.666	
B Kits													
Recurring													
PDG Kit:EQUIPMENT Group B (Active)	- / -	- / -	125 / 8.000	156 / 9.048	- / -	156 / 9.048	97 / 5.626	68 / 3.944	15 / 0.930	- / -	- / -	461 / 27.548	
PDG Kit:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	59 / 3.422	88 / 5.104	- / -	- / -	- / -	147 / 8.526	
Subtotal: Recurring	- / -	- / -	- / 8.000	- / 9.048	- / -	- / 9.048	- / 9.048	- / 9.048	- / 0.930	- / -	- / -	- / 36.074	
Subtotal: PDG Kit	- / -	- / 0.750	- / 8.936	- / 9.984	- / -	- / 9.984	- / 9.612	- / 9.528	- / 0.930	- / -	- / -	- / 39.740	
Subtotal: Procurement, All Modification Items	- / -	- / 0.800	- / 10.215	- / 23.151	- / -	- / 23.151	- / 22.899	- / 23.218	- / 11.793	- / -	- / -	- / 92.076	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.000	
PMA - Other Gov't Costs	- / -	- / 4.809	- / 3.500	- / 4.863	- / -	- / 4.863	- / 4.697	- / 3.944	- / 4.600	- / 3.000	- / -	- / 29.413	
ICS-Material	- / -	- / -	- / 1.200	- / 4.000	- / -	- / 4.000	- / -	- / -	- / -	- / -	- / -	- / 5.200	
Change Orders	- / -	- / 1.800	- / 1.000	- / 3.724	- / -	- / 3.724	- / 10.144	- / -	- / 2.000	- / -	- / -	- / 18.668	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 602148 / MMC and Display Generator Upgrade

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Models of Systems Affected: F-16	Modification Type: Capability Improvement	Related RDT&E PEs: 0207133F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
SUPPORT-EQUIP	- / -	- / 18.521	- / 11.158	- / 17.702	- / -	- / 17.702	- / 8.130	- / 1.657	- / 10.350	- / 0.714	- / -	- / 48.232
OTHER GOVT	- / -	- / 3.231	- / 0.500	- / 15.446	- / -	- / 15.446	- / 17.448	- / 1.581	- / 12.766	- / 1.000	- / -	- / 41.972
<i>Subtotal: Support</i>	- / 0.000	- / 18.361	- / 7.358	- / 45.735	- / -	- / 45.735	- / 20.419	- / 7.182	- / 29.716	- / 4.714	- / 0.000	- / 133.485
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	19.161	17.573	68.886	0.000	68.886	43.318	30.400	41.509	4.714	0.000	225.561

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01600 / F-16			Modification Number / Title: 602148 / MMC and Display Generator Upgrade	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 2: MMC Kit							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: McKinney, TX			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 11			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	
Delivery Dates		Sep 2023	Sep 2024	Sep 2025	Sep 2026	Sep 2027	
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 608		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01600 / F-16			Modification Number / Title: 602148 / MMC and Display Generator Upgrade	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 2 of 2: PDG Kit							
Manufacturer Information							
Manufacturer Name: General Dynamics				Manufacturer Location: Minneapolis, MN			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 14			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Jun 2022	Jun 2023	Jun 2024	Jun 2025	Jun 2026	
Delivery Dates		Aug 2023	Aug 2024	Aug 2025	Aug 2026	Aug 2027	
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 608		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 602600 / F-16 LEGACY STRUCTURAL SLEP

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	94.616	108.751	91.600	109.024	0.000	109.024	133.515	131.298	80.013	97.065	212.604	1,058.486
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	94.616	108.751	91.600	109.024	0.000	109.024	133.515	131.298	80.013	97.065	212.604	1,058.486
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	94.616	108.751	91.600	109.024	0.000	109.024	133.515	131.298	80.013	97.065	212.604	1,058.486

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The goal of this program is to extend the service life of up to all F-16 Blk 40-52 beyond 8000 Equivalent Flying Hours (EFH) to ensure a continually viable fighter force. F-16 aircraft need modifications and structural enhancements to extend the service life of these fighters. The F-16 Structural Service Life Extension Program (SLEP) is intended to be a depot-level upgrade program to replace or rework known life limited structure to preclude the onset of widespread fatigue damage, maintain safety of flight and enhance aircraft availability. Life-limiting components were identified during Full Scale Durability Testing (FSDT). Installation of the components were validated during Engineering and Manufacturing Development (EMD). Without modification of life-limited structures, the F-16 will experience continued structural degradation, which will adversely affect future mission capable rates and become increasingly costly to correct. Because of potential variation in modification requirements and installation schedules among aircraft blocks, the quantity and unit cost of kit procurement and hardware installation will differ from year to year, depending on the mix of aircraft involved.

The Air Force position for the SLEP program is a quantity of 450, however current funds will allow for purchase of 339 modification installs

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys or bridge buys limited to the program of record quantity.

Milestone/Development Status

The FSDT contract was awarded April 28, 2011, while the EMD was awarded Nov 13, 2013. Development efforts ran through 2019, contract is in closeout. The program successfully completed and returned the 4 kit proof aircraft to the field (May 18, Jun 19, Aug 19, and Dec 19). The SLEP modification kits for production aircraft was competitively awarded July 18 and all kits (with the exception of D-model CSL) have completed first article testing (FAT). All 4 LRIP aircraft inducted and are in work at OO-ALC depot. The full-rate production milestone was approved Jun 2020. OCONUS depot contracts were awarded in early FY21 with working beginning in 2nd quarter FY21.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	87.996	77.406	93.396	-	93.396	108.219	101.140	65.181	83.713
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	20.755	14.194	15.628	-	15.628	25.296	30.158	14.832	13.352
Total:									
Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 602600 / F-16 LEGACY STRUCTURAL SLEP

ID Code (A=Service Ready, B=Not Service Ready) : A **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
Secondary Distribution	Total Obligation Authority	108.751	91.600	109.024	0.000	109.024	133.515	131.298	80.013	97.065

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 602600 / F-16 LEGACY STRUCTURAL SLEP

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Models of Systems Affected: F-16	Modification Type: Service Life Extension	Related RDT&E PEs: 0207133F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: Legacy SLEP Kit</i>												
A Kits												
Recurring												
Legacy SLEP Kit:INSTALL KITS Group A (Active)	38 / 15.583	34 / 18.207	36 / 14.027	34 / 12.259	- / -	34 / 12.259	38 / 13.970	42 / 15.317	20 / 12.035	19 / 7.711	8 / 2.938	269 / 112.047
Legacy SLEP Kit:INSTALL KITS Group A (Guard)	9 / 3.587	9 / 7.651	11 / 4.286	11 / 3.966	- / -	11 / 3.966	11 / 4.044	9 / 3.282	4 / 4.012	4 / 1.836	2 / 0.734	70 / 33.398
<i>Subtotal: Recurring</i>	- / 19.170	- / 25.858	- / 18.313	- / 16.225	- / -	- / 16.225	- / 18.014	- / 18.599	- / 16.047	- / 9.547	- / 3.672	- / 145.445
<i>Subtotal: Legacy SLEP Kit</i>	- / 19.170	- / 25.858	- / 18.313	- / 16.225	- / -	- / 16.225	- / 18.014	- / 18.599	- / 16.047	- / 9.547	- / 3.672	- / 145.445
<i>Subtotal: Procurement, All Modification Items</i>	- / 19.170	- / 25.858	- / 18.313	- / 16.225	- / -	- / 16.225	- / 18.014	- / 18.599	- / 16.047	- / 9.547	- / 3.672	- / 145.445
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 0.000	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
Change Orders	- / 4.047	- / 2.050	- / 2.219	- / 0.000	- / -	- / 0.000	- / 1.000	- / 0.100	- / 0.001	- / -	- / -	- / 19.417
Data	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000
SUPPORT-EQUIP	- / 15.259	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / -	- / -	- / 15.259
OTHER GOVT	- / 135.855	- / 22.805	- / 10.324	- / 0.500	- / -	- / 0.500	- / 0.118	- / 0.100	- / 0.001	- / 0.001	- / 0.002	- / 59.706
<i>Subtotal: Support</i>	- / 55.161	- / 24.855	- / 2.543	- / 0.500	- / -	- / 0.500	- / 1.118	- / 0.200	- / 0.002	- / 0.001	- / 0.002	- / 84.382
Installation												
<i>Modification Item 1 of 1: Legacy SLEP Kit</i>	7 / 20.285	18 / 58.038	37 / 70.744	46 / 92.299	- / -	46 / 92.299	48 / 114.383	47 / 112.499	29 / 63.964	34 / 87.517	73 / 208.930	339 / 828.659
<i>Subtotal: Installation</i>	7 / 20.285	18 / 58.038	37 / 70.744	46 / 92.299	- / -	46 / 92.299	48 / 114.383	47 / 112.499	29 / 63.964	34 / 87.517	73 / 208.930	339 / 828.659
Total												
Total Cost (Procurement + Support + Installation)	94.616	108.751	91.600	109.024	0.000	109.024	133.515	131.298	80.013	97.065	212.604	1,058.486

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 602600 / F-16 LEGACY STRUCTURAL SLEP

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: Legacy SLEP Kit

Manufacturer Information

Manufacturer Name: Multiple	Manufacturer Location: Fort Worth, TX
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	Apr 2021	Apr 2022	Apr 2023	Apr 2024	Apr 2025	Apr 2026	Apr 2027
Delivery Dates	Apr 2022	Apr 2023	Apr 2024	Apr 2025	Apr 2026	Apr 2027	Apr 2028

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	7 / 20.285	18 / 58.038	21 / 39.632	1 / 2.931	- / -	1 / 2.931	- / -	- / -	- / -	- / -	- / -	47 / 120.886
FY 2021	- / -	- / -	16 / 31.112	27 / 51.757	- / -	27 / 51.757	- / -	- / -	- / -	- / -	- / -	43 / 82.869
FY 2022	- / -	- / -	- / -	18 / 37.611	- / -	18 / 37.611	29 / 69.616	- / -	- / -	- / -	- / -	47 / 107.227
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	19 / 44.767	26 / 52.968	- / -	- / -	- / -	45 / 97.735
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 59.531	28 / 62.771	- / -	- / -	49 / 122.302
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.193	34 / 87.517	16 / 42.064	51 / 130.774
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 69.415	24 / 69.415
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 69.072	23 / 69.072
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 28.379	10 / 28.379
Total	7 / 20.285	18 / 58.038	37 / 70.744	46 / 92.299	- / -	46 / 92.299	48 / 114.383	47 / 112.499	29 / 63.964	34 / 87.517	73 / 208.930	339 / 828.659

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	4	3	5	6	10	9	9	9	12	11	12	11	12	12	12	12	12	12	12	11	6	8	8	7	8	9	8	9	73	339
Out	2	1	2	0	2	4	3	5	6	10	9	9	9	12	11	12	11	12	12	12	12	10	10	10	10	6	8	8	7	114	339

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 618250 / Comm Suite Upgrade

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	70.752	30.914	59.653	61.647	0.000	61.647	83.615	65.571	61.978	66.154	75.337	575.621
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	70.752	30.914	59.653	61.647	0.000	61.647	83.615	65.571	61.978	66.154	75.337	575.621
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	70.752	30.914	59.653	61.647	0.000	61.647	83.615	65.571	61.978	66.154	75.337	575.621

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	5.990	2.892	-	-	-	-	-	-	-	-	-	8.882
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Chairman, Joint Chiefs of Staff directed a modernization effort based on the recommendation of the National Security Agency (NSA) to modernize equipment and provide enhanced security for tactical networks (Cryptographic Modernization (CM)). The F-16 Comm Suite Upgrade addresses these mandates by including CM, Mobile User Objective System (MUOS), second generation Anti-Jam Tactical UHF Radio for NATO (SATURN), a Cockpit Communication Control Panel (C3PO) and a Digital Comm Matrix (DCM). The Communication Suite Upgrade provides crypto modernization for MUOS tactical networks that enables increased interoperable communications and more secure command and control. Delaying procurement of the ARC-210 Gen 6 radio degrades secure communications and will not meet NSA mandates. Also, rebuilding military readiness and a more lethal force; impacts ability to field sufficient, capable forces to defeat enemies and achieve sustainable outcomes that protect the American people and our vital interests.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys, or bridge buys limited to the program of record quantity. This funding request also supports flight testing and technical data updates, as required.

The AF position for Comm Suite Upgrade Program is a quantity up to 864, however current funds will allow for 724 mod buys and 652 mod installs.

Milestone/Development Status

Continue NRE efforts. Milestone C completed December FY20. Procure Group B long-lead items and test assets. Pre-block installs start in FY21. Block 30/32 C Models-DTE: Oct 19 ,IOT&E: May 20 OT&E: Oct 20, Final Production TDP: Dec 20.
 Block 50/52 C models- IOT&E: Apr 22,OT&E: Sep 22, Final Production TDP: Nov 22
 Block 40/42 C Models- IOT&E: Oct 22, OT&E: Feb 23, Final Production TDP: Apr 23
 Block 50/52 D Models- IOT&E: May 23, OT&E: Oct 23, Final Production TDP: Dec 23
 Block 40/42 D Models- IOT&E: May 24, OT&E: Oct 24, Final Production TDP: Dec 24
 Block 30/32D Models- IOT&E: May 25, OT&E: Oct 25, Final Production TDP: Dec 25

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	17.130	50.225	60.991	-	60.991	76.175	44.197	38.770	49.930
AFNG	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 618250 / Comm Suite Upgrade
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Total Obligation Authority	7.872	5.136	0.656	-	0.656	7.440	21.374	23.208	16.224
AFR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.912	4.292	-	-	-	-	-	-	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	30.914	59.653	61.647	0.000	61.647	83.615	65.571	61.978	66.154

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01600 / F-16				Modification Number / Title: 618250 / Comm Suite Upgrade				
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Models of Systems Affected: F-16			Modification Type: Capability Improvement				Related RDT&E PEs: 0207133F					
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)
RDT&E PE #												
0207133F	2 / 12.025	- / 0.607	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 12.632
Procurement												
Modification Item 1 of 1: Comm Suite MUOS												
A Kits												
Recurring												
Comm Suite MUOS:INSTALL KITS Group A (Active)	- / -	- / -	5 / 0.216	35 / 1.260	- / -	35 / 1.260	91 / 3.276	60 / 2.160	73 / 2.628	103 / 3.708	92 / 3.317	459 / 16.565
Comm Suite MUOS:INSTALL KITS Group A (Guard)	- / -	34 / 1.296	2 / 0.072	19 / 0.656	- / -	19 / 0.656	24 / 0.864	55 / 1.980	31 / 1.116	16 / 0.576	- / -	181 / 6.560
Comm Suite MUOS:INSTALL KITS Group A (Reserve)	- / -	10 / 0.432	2 / 0.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.504
Subtotal: Recurring	- / -	- / 1.728	- / 0.360	- / 1.916	- / -	- / 1.916	- / 4.140	- / 4.140	- / 3.744	- / 4.284	- / 3.317	- / 23.629
B Kits												
Recurring												
Comm Suite MUOS:EQUIPMENT Group B (Active)	- / -	- / -	9 / 1.740	78 / 21.372	- / -	78 / 21.372	91 / 24.934	66 / 18.084	62 / 14.519	70 / 19.117	93 / 27.948	469 / 127.714
Comm Suite MUOS:EQUIPMENT Group B (Guard)	- / -	24 / 6.576	- / -	- / -	- / -	- / -	24 / 6.576	49 / 14.210	42 / 11.508	24 / 6.576	- / -	163 / 45.446
Comm Suite MUOS:EQUIPMENT Group B (Reserve)	- / -	20 / 5.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 5.480
Subtotal: Recurring	- / -	- / 12.056	- / 1.740	- / 21.372	- / -	- / 21.372	- / 31.510	- / 32.294	- / 26.027	- / 25.693	- / 27.948	- / 178.640
Subtotal: Comm Suite MUOS	- / -	- / 13.784	- / 2.100	- / 23.288	- / -	- / 23.288	- / 35.650	- / 36.434	- / 29.771	- / 29.977	- / 31.265	- / 202.269
Subtotal: Procurement, All Modification Items	- / -	- / 13.784	- / 2.100	- / 23.288	- / -	- / 23.288	- / 35.650	- / 36.434	- / 29.771	- / 29.977	- / 31.265	- / 202.269
Support (All Modification Items)												
PMA - Other Gov't Costs	- / 16.201	- / 0.500	- / 3.000	- / 3.000	- / -	- / 3.000	- / 4.000	- / 1.590	- / 2.600	- / 3.000	- / 0.200	- / 34.091
Data	- / -	- / 3.000	- / 14.448	- / 2.000	- / -	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / 19.448
Change Orders	- / -	- / 2.500	- / 4.500	- / 3.062	- / -	- / 3.062	- / 2.000	- / 0.200	- / 0.337	- / 2.060	- / 1.479	- / 16.138
OTHER GOVT	- / 7.070	- / 5.097	- / 11.907	- / 14.000	- / -	- / 14.000	- / 12.172	- / 1.860	- / 0.137	- / 2.556	- / 0.057	- / 54.856
SUPPORT-EQUIP	- / 147.481	- / 6.033	- / 14.414	- / 14.353	- / -	- / 14.353	- / 12.945	- / 10.723	- / 14.095	- / 8.041	- / -	- / 108.085
Subtotal: Support	- / 170.752	- / 17.130	- / 48.269	- / 36.415	- / -	- / 36.415	- / 31.117	- / 4.373	- / 7.169	- / 15.657	- / 1.736	- / 232.618
Installation												
Modification Item 1 of 1: Comm Suite MUOS	- / -	- / -	44 / 9.284	9 / 1.944	- / -	9 / 1.944	78 / 16.848	115 / 24.764	115 / 25.038	104 / 20.520	187 / 42.336	652 / 140.734
Subtotal: Installation	- / -	- / -	44 / 9.284	9 / 1.944	- / -	9 / 1.944	78 / 16.848	115 / 24.764	115 / 25.038	104 / 20.520	187 / 42.336	652 / 140.734
Total												
Total Cost (Procurement + Support + Installation)	70.752	30.914	59.653	61.647	0.000	61.647	83.615	65.571	61.978	66.154	75.337	575.621

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 618250 / Comm Suite Upgrade
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: Comm Suite MUOS

Manufacturer Information

Manufacturer Name: Collins	Manufacturer Location: Cedar Rapids IA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Mar 2021	Mar 2022	Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027
Delivery Dates	Mar 2022	Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	44 / 9.284	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 9.284
FY 2022	- / -	- / -	- / -	9 / 1.944	- / -	9 / 1.944	- / -	- / -	- / -	- / -	- / -	9 / 1.944
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	78 / 16.848	- / -	- / -	- / -	- / -	78 / 16.848
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 24.764	- / -	- / -	- / -	115 / 24.764
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 25.038	- / -	- / -	115 / 25.038
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	104 / 20.520	- / -	104 / 20.520
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	94 / 20.304	94 / 20.304
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	93 / 22.032	93 / 22.032
Total	- / -	- / -	44 / 9.284	9 / 1.944	- / -	9 / 1.944	78 / 16.848	115 / 24.764	115 / 25.038	104 / 20.520	187 / 42.336	652 / 140.734

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	0	-	-	-	-	-	14	14	16	3	3	2	1	19	19	20	20	28	29	29	29	28	29	29	29	26	26	26	26	187	652
Out	0	-	-	-	-	-	-	14	14	16	3	3	2	1	19	19	20	20	28	29	29	29	28	29	29	29	26	26	26	213	652

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633031 / HFLCC AGCAS

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	44.127	25.217	17.577	28.889	0.000	28.889	0.000	0.000	0.000	0.000	-	115.810
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	44.127	25.217	17.577	28.889	0.000	28.889	0.000	0.000	0.000	0.000	-	115.810
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	44.127	25.217	17.577	28.889	0.000	28.889	0.000	0.000	0.000	0.000	-	115.810

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Hybrid Flight Control Computer (HFLCC) Auto Ground Collision Avoidance System (AGCAS) development and integration for aircraft prevents most Controlled Flight Into Terrain (CFIT) accidents using terrain database and prediction algorithms for aircraft trajectory recovery and executes an automated fly up maneuver to avoid collision. This program includes a B-MUX modification which will add new MUX wiring and modify the MUX matrix to add a new avionics 1553 MUX. This will entail offloading certain MUX traffic from the A-MUX to the B-MUX and Ethernet via aircraft wiring additions and modifications.

This program also provides upgrades to F-16 aircraft to bring the entire fleet to a SCU 10 configuration. This SCU 10 baseline configuration enables each aircraft's flight control interoperability ensuring the proper functionality of the HFLCC when auto generating an aircraft fly-up.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys, or bridge buys limited to the program of record quantity. This funding request also supports flight testing and technical data updates, as required. This modification directly supports the NDS through increasing warfighter readiness by safeguarding against aircrew losses.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D

Requirement is up to 271 aircraft. With FY23 funds program can execute 190 aircraft.

This reflects fleet reduction from 325 aircraft to 271 aircraft. Program includes Secure Mission Data System (SMDS) as Automatic Ground Collision Avoidance System (AGCAS) hosting solution replacing the obsolete Advanced Data Transfer Equipment (ADTE).

Depot source of repair (DSOR) in work.

Milestone/Development Status

Air Force Research Laboratory (AFRL) has completed Hybrid Flight Control Computer (HFLCC) development and will be fully flight certified Oct 21. Milestone C has been approved. System Program Office will begin to make full rate production buys on Group B in FY22 and begin fielding in Oct 2023.

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633031 / HFLCC AGCAS
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Total Obligation Authority	21.312	16.076	3.479	-	3.479	-	-	-	-
AFNG	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.665	0.895	18.876	-	18.876	-	-	-	-
AFR	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.240	0.606	6.534	-	6.534	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
Total Obligation Authority	25.217	17.577	28.889	0.000	28.889	0.000	0.000	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01600 / F-16				Modification Number / Title: 633031 / HFLCC AGCAS				
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs: 0207133F				
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)
RDT&E PE #												
0207133F	- / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.200
Procurement												
Modification Item 1 of 2: COMMON: SCU upgrade												
B Kits												
Recurring												
COMMON: SCU upgrade:EQUIPMENT Group B (Active)	10 / 1.729	13 / 2.665	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 4.394
COMMON: SCU upgrade:EQUIPMENT Group B (Guard)	56 / 7.867	16 / 3.280	- / -	52 / 12.480	- / -	52 / 12.480	- / -	- / -	- / -	- / -	- / -	124 / 23.627
COMMON: SCU upgrade:EQUIPMENT Group B (Reserve)	24 / 3.111	1 / 0.205	- / -	18 / 4.320	- / -	18 / 4.320	- / -	- / -	- / -	- / -	- / -	43 / 7.636
Subtotal: Recurring	- / 12.707	- / 6.150	- / -	- / 16.800	- / -	- / 16.800	- / -	- / -	- / -	- / -	- / -	- / 35.657
Subtotal: COMMON: SCU upgrade	- / 12.707	- / 6.150	- / -	- / 16.800	- / -	- / 16.800	- / -	- / -	- / -	- / -	- / -	- / 35.657
Modification Item 2 of 2: Install Kits Group A												
A Kits												
Recurring												
Install Kits Group A:INSTALL KITS Group A (Active)	23 / 0.534	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 0.534
Install Kits Group A:INSTALL KITS Group A (Guard)	72 / 1.939	- / -	- / -	52 / 2.600	- / -	52 / 2.600	- / -	- / -	- / -	- / -	- / -	124 / 4.539
Install Kits Group A:INSTALL KITS Group A (Reserve)	25 / 0.827	- / -	- / -	18 / 0.900	- / -	18 / 0.900	- / -	- / -	- / -	- / -	- / -	43 / 1.727
Subtotal: Recurring	- / 3.300	- / -	- / -	- / 3.500	- / -	- / 3.500	- / -	- / -	- / -	- / -	- / -	- / 6.800
Subtotal: Install Kits Group A	- / 3.300	- / -	- / -	- / 3.500	- / -	- / 3.500	- / -	- / -	- / -	- / -	- / -	- / 6.800
Subtotal: Procurement, All Modification Items	- / 16.007	- / 6.150	- / -	- / 20.300	- / -	- / 20.300	- / -	- / -	- / -	- / -	- / -	- / 42.457
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 3.568	- / 4.120	- / 5.364	- / 2.379	- / -	- / 2.379	- / -	- / -	- / -	- / -	- / -	- / 15.431
GROUP B: TOTAL NONRECURRING	- / 19.605	- / 9.907	- / 8.809	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 38.321
Change Orders	- / 3.339	- / 3.601	- / 0.913	- / 1.060	- / -	- / 1.060	- / -	- / -	- / -	- / -	- / -	- / 8.913
OTHER GOVT	- / 0.033	- / 0.809	- / 0.020	- / 0.040	- / -	- / 0.040	- / -	- / -	- / -	- / -	- / -	- / 0.902
Subtotal: Support	- / 26.545	- / 18.437	- / 15.106	- / 3.479	- / -	- / 3.479	- / -	- / -	- / -	- / -	- / -	- / 63.567
Installation												
Modification Item 2 of 2: Install Kits Group A	45 / 1.575	21 / 0.630	54 / 2.471	70 / 5.110	- / -	70 / 5.110	- / -	- / -	- / -	- / -	- / -	190 / 9.786
Subtotal: Installation	45 / 1.575	21 / 0.630	54 / 2.471	70 / 5.110	- / -	70 / 5.110	- / -	- / -	- / -	- / -	- / -	190 / 9.786
Total												

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633031 / HFLCC AGCAS
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Models of Systems Affected: F-16 **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0207133F

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)	44.127	25.217	17.577	28.889	0.000	28.889	0.000	0.000	0.000	0.000	-	115.810

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01600 / F-16			Modification Number / Title: 633031 / HFLCC AGCAS	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 2: COMMON: SCU upgrade							
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): Org/Intermediate					Installation Quantity: 0		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633031 / HFLCC AGCAS
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 2 of 2: Install Kits Group A

Manufacturer Information

Manufacturer Name: BAE Systems Manufacturer Location: Hill AFB

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

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

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	45 / 1.575	21 / 0.630	54 / 2.471	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 4.676
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	70 / 5.110	- / -	70 / 5.110	- / -	- / -	- / -	- / -	- / -	70 / 5.110
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	45 / 1.575	21 / 0.630	54 / 2.471	70 / 5.110	- / -	70 / 5.110	- / -	- / -	- / -	- / -	- / -	190 / 9.786

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	45	21	-	-	-	54	-	-	-	-	-	35	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	190
Out	21	11	13	17	18	10	10	10	10	-	-	35	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	190

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633034 / Secure Mission Data Systems

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	30.000	0.000	30.000	0.000	0.000	0.000	0.000	0.000	30.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	30.000	0.000	30.000	0.000	0.000	0.000	0.000	0.000	30.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	30.000	0.000	30.000	0.000	0.000	0.000	0.000	0.000	30.000

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 633034, Secure Mission Data Systems, is a new start.

The Secure Mission Data System (SMDS) program will replace the existing Advanced Data Transfer Equipment (ADTE) and Digital Video Recorder (DVR) with one device. AGCAS will also be re-hosted in the SMDS box. The current ADTE and DVR are using Diminishing Manufacturing Sources (DMS) memory which have hindered sustainment and supportability, current data recorder and data transfer devices are not compliant with intent of National Institute of Science and Technology (NIST) 800-53 R4. Additionally, legacy devices have insufficient memory, processing power, and interfaces (Ethernet) to support ever increasing mission requirements. Already identified requirements for Ethernet mission data transfer and Network File System (NFS), are not supported by legacy equipment. SMDS meets current standards and requirements for data handling and management of increasingly strict cyber security, anti-tamper, digital signature, and crypto guidance on a weapon system. Program includes buy/install of SMDS LRU, Ground Encryption Device (GED), and Removable Storage Devices (RSDs).

Milestone/Development Status

Development is complete. Integration only.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	25.221	-	25.221	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.779	-	4.779	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	30.000	0.000	30.000	0.000	0.000	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01600 / F-16					Modification Number / Title: 633034 / Secure Mission Data Systems			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs: 0207133F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 2: COMMON: SMDS: Equipment</i>													
B Kits													
Recurring													
COMMON: SMDS: Equipment:EQUIPMENT Group B (Active)	- / -	- / -	- / -	100 / 13.635	- / -	100 / 13.635	- / -	- / -	- / -	- / -	- / -	100 / 13.635	
COMMON: SMDS: Equipment:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	30 / 4.073	- / -	30 / 4.073	- / -	- / -	- / -	- / -	- / -	30 / 4.073	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 17.708	- / -	- / 17.708	- / -	- / -	- / -	- / -	- / -	- / 17.708	
<i>Subtotal: COMMON: SMDS: Equipment</i>	- / -	- / -	- / -	- / 17.708	- / -	- / 17.708	- / -	- / -	- / -	- / -	- / -	- / 17.708	
<i>Modification Item 2 of 2: Install Kits Group A (2)</i>													
A Kits													
Recurring													
Install Kits Group A:INSTALL KITS Group A (Active)	- / -	- / -	- / -	100 / 2.362	- / -	100 / 2.362	- / -	- / -	- / -	- / -	- / -	100 / 2.362	
Install Kits Group A:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	30 / 0.706	- / -	30 / 0.706	- / -	- / -	- / -	- / -	- / -	30 / 0.706	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 3.068	- / -	- / 3.068	- / -	- / -	- / -	- / -	- / -	- / 3.068	
<i>Subtotal: Install Kits Group A (2)</i>	- / -	- / -	- / -	- / 3.068	- / -	- / 3.068	- / -	- / -	- / -	- / -	- / -	- / 3.068	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 20.776	- / -	- / 20.776	- / -	- / -	- / -	- / -	- / -	- / 20.776	
Support (All Modification Items)													
OTHER GOVT	- / -	- / -	- / -	- / 9.224	- / -	- / 9.224	- / -	- / -	- / -	- / -	- / -	- / 9.224	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 9.224	- / -	- / 9.224	- / -	- / -	- / -	- / -	- / -	- / 9.224	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	30.000	0.000	30.000	0.000	0.000	0.000	0.000	0.000	30.000	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01600 / F-16			Modification Number / Title: 633034 / Secure Mission Data Systems	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 2: COMMON: SMDS: Equipment							
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): Org/Intermediate					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01600 / F-16			Modification Number / Title: 633034 / Secure Mission Data Systems		
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:			
Modification Item 2 of 2: Install Kits Group A (2)								
Manufacturer Information								
Manufacturer Name: Multiple					Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3					Production Leadtime (in Months): 3			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	
Contract Dates			May 2023					
Delivery Dates			Aug 2023					
Installation Information								
Method of Implementation (Organic): Org/Intermediate						Installation Quantity: 130		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633035 / IVEWS

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	89.751	0.000	89.751	130.547	281.975	458.837	390.260	852.711	2,204.081
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	89.751	0.000	89.751	130.547	281.975	458.837	390.260	852.711	2,204.081
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	89.751	0.000	89.751	130.547	281.975	458.837	390.260	852.711	2,204.081

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Integrated Viper Electronic Warfare Suite (IVEWS) is a Section 804 Middle Tier Acquisition program formerly a sub-program under DRWR P-3A Mod 704050 (as Next Gen EW Suite). IVEWS began as a risk reduction program to the ALR-69A solution under DRWR to provide a next-generation electronic warfare (EW) solution. With the success of IVEWS rapid prototyping, a decision was made to continue IVEWS as the EW solution for F-16 Blks 40/42/50/52, renaming it from NGEW to IVEWS and separating the program to its own modification line. The Air Force moved the funds aligned to IVEWS under DRWR to this line for the IVEWS program in this budget request. IVEWS provides improved Digital Radar Warning Receiver performance and Active Jamming capability, with future growth upgrades, in an internal suite to keep the F-16 operationally viable to 2046+. This rapid acquisition program was initiated to design, develop, test, and produce a mature electronic warfare system that is internal to the F-16, interoperable with the Active Electronically Scanned Array radar, designed to Open Missions Systems Tier II requirements, and provisioned for long-term growth capability to support future upgrades such as Fiber Optic Towed Decoy, Adaptive/Cognitive Processing, and Open System Architecture compliance. This program is necessary for the F-16 to meet the NDS requirement of operating in current and future contested environments.

Milestone/Development Status

Plan to initiate integration efforts for IVEWS in FY23 (through FY27) for Group A Hardware, Group B Hardware and software updates. Group A and B kits will be procured and installed in the EMD phase in tandem with a Low Rate Initial Production

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	89.751	-	89.751	130.547	281.975	458.837	390.260
Total:									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.000	0.000	89.751	0.000	89.751	130.547	281.975	458.837	390.260

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01600 / F-16					Modification Number / Title: 633035 / IVEWS			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs: 0207133F					
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)	
RDT&E PE #													
0207133F	- / -	- / -	- / -	- / 63.224	- / -	- / 63.224	- / 49.143	- / 40.632	- / -	- / -	- / -	- / 152.999	
Procurement													
Modification Item 1 of 1: IVEWS													
A Kits													
Recurring													
IVEWS:INSTALL KITS Group A (Active)	- / -	- / -	- / -	22 / 12.152	- / -	22 / 12.152	34 / 18.781	58 / 32.038	92 / 50.819	75 / 41.429	124 / 68.496	405 / 223.715	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 12.152	- / -	- / 12.152	- / 18.781	- / 32.038	- / 50.819	- / 41.429	- / 68.496	- / 223.715	
B Kits													
Recurring													
IVEWS:EQUIPMENT Group B (Active)	- / -	- / -	- / -	22 / 60.488	- / -	22 / 60.488	34 / 93.482	58 / 159.470	92 / 252.952	75 / 206.211	124 / 340.936	405 / 1,113.539	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 60.488	- / -	- / 60.488	- / 93.482	- / 159.470	- / 252.952	- / 206.211	- / 340.936	- / 1,113.539	
<i>Subtotal: IVEWS</i>	- / -	- / -	- / -	- / 72.640	- / -	- / 72.640	- / 112.263	- / 191.508	- / 303.771	- / 247.640	- / 409.432	- / 1,337.254	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 72.640	- / -	- / 72.640	- / 112.263	- / 191.508	- / 303.771	- / 247.640	- / 409.432	- / 1,337.254	
Support (All Modification Items)													
SUPPORT-EQUIP	- / -	- / -	- / -	- / 17.111	- / -	- / 17.111	- / 18.284	- / 57.614	- / 104.293	- / 56.007	- / 8.720	- / 262.029	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 17.111	- / -	- / 17.111	- / 18.284	- / 57.614	- / 104.293	- / 56.007	- / 8.720	- / 262.029	
Installation													
Modification Item 1 of 1: IVEWS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 32.853	34 / 50.773	58 / 86.613	291 / 434.559	405 / 604.798	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 32.853	34 / 50.773	58 / 86.613	291 / 434.559	405 / 604.798	
Total													
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	89.751	0.000	89.751	130.547	281.975	458.837	390.260	852.711	2,204.081	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633035 / IVEWS
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: IVEWS

Manufacturer Information

Manufacturer Name: Northrop Grumman				Manufacturer Location: Rolling Meadows, IL			
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			Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027
Delivery Dates			Mar 2025	Mar 2026	Mar 2027	Mar 2028	Mar 2029

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 32.853	- / -	- / -	- / -	22 / 32.853
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 50.773	- / -	- / -	34 / 50.773
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	58 / 86.613	- / -	58 / 86.613
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	92 / 137.386	92 / 137.386
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 112.000	75 / 112.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	124 / 185.173	124 / 185.173
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 32.853	34 / 50.773	58 / 86.613	291 / 434.559	405 / 604.798

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	6	6	8	8	8	10	14	14	15	15	291	405
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	6	6	8	8	8	10	14	14	15	306	405

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633036 / CDU

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	10.319	0.000	10.319	0.000	0.000	0.000	0.000	-	10.319
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	10.319	0.000	10.319	0.000	0.000	0.000	0.000	-	10.319
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	10.319	0.000	10.319	0.000	0.000	0.000	0.000	-	10.319

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 633036, CDU, is a new start.

Center Display Unit (CDU) is a form fit function modification to the F-16's cockpit pedestal that replaces aging analog primary flight instruments with modern, updated electronics for increased situational awareness for the warfighter. CDU provides a high resolution screen used by pilots for navigation, target acquisition, radar screening, and mapping applications. CDU is a pre-requisite for the AESA radar modification, bringing the full capability of digital radar and high resolution targeting pods to the pilot. CDU has split screen capabilities which allows for multiple views simultaneously adding to the lethality and survivability of the aircraft.

Current position is to modify up to the remaining 171 aircraft in the F-16 fleet requiring CDU. Program is able to buy/install 20 kits with current funding.

Milestone/Development Status

Fully developed and integrated, future growth potential; additional LRU integration

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	10.319	-	10.319	0.000	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	10.319	0.000	10.319	0.000	0.000	0.000	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01600 / F-16					Modification Number / Title: 633036 / CDU			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs: 0207133F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> CDU Kit Buys													
B Kits													
Recurring													
CDU Kit Buys:EQUIPMENT Group B (Active)	- / -	- / -	- / -	20 / 6.292	- / -	20 / 6.292	- / -	- / -	- / -	- / -	- / -	20 / 6.292	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 6.292	- / -	- / 6.292	- / -	- / -	- / -	- / -	- / -	- / 6.292	
<i>Subtotal: CDU Kit Buys</i>	- / -	- / -	- / -	- / 6.292	- / -	- / 6.292	- / -	- / -	- / -	- / -	- / -	- / 6.292	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 6.292	- / -	- / 6.292	- / -	- / -	- / -	- / -	- / -	- / 6.292	
Support (All Modification Items)													
OTHER GOVT	- / -	- / -	- / -	- / 2.473	- / -	- / 2.473	- / -	- / -	- / -	- / -	- / -	- / 2.473	
SUPPORT-EQUIP	- / -	- / -	- / -	- / 1.554	- / -	- / 1.554	- / -	- / -	- / -	- / -	- / -	- / 1.554	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 4.027	- / -	- / 4.027	- / -	- / -	- / -	- / -	- / -	- / 4.027	
Installation													
<i>Modification Item 1 of 1:</i> CDU Kit Buys	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.000	- / -	- / -	- / -	- / -	20 / 0.000	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	20 / -	- / -	- / -	- / -	- / -	20 / -	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	10.319	0.000	10.319	0.000	0.000	0.000	0.000	-	10.319	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633036 / CDU
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: CDU Kit Buys

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 12
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Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Jan 2023				
Delivery Dates			Jan 2024				

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.000	- / -	- / -	- / -	- / -	20 / 0.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.000	- / -	- / -	- / -	- / -	20 / 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	0	-	-	-	-	-	-	-	-	-	-	-	-	6	7	7	-	-	-	-	-	-	-	-	-	-	-	0	20	
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	7	-	-	-	-	-	-	-	-	-	-	0	20	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 661653 / MIDS-JTRS

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	237.913	33.093	0.000	9.779	0.000	9.779	-	-	-	-	-	280.785
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	237.913	33.093	0.000	9.779	0.000	9.779	-	-	-	-	-	280.785
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	237.913	33.093	0.000	9.779	0.000	9.779	-	-	-	-	-	280.785

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Chairman, Joint Chiefs of Staff directed a modernization effort at the recommendation of the National Security Agency (NSA) to modernize equipment and provide enhanced security for Link 16 tactical networks (Cryptographic Modernization (CM)). Likewise, a radio frequency spectrum memorandum of agreement between the DoD and the Department of Transportation mandated the internal frequency remapping for our Link 16 family of terminals to avoid conflict with next generation Federal Aviation Administration radio aids to navigation. These two mandates will be satisfied by replacing existing Link 16 Multi- functional Information Distribution System (MIDS) Low Volume Terminals (LVT) with MIDS-Joint Tactical Radio System (JTRS) 4-channel concurrent multi-netting (CMN-4) terminals. MIDS-JTRS terminals will also improve the F-16 capability by providing higher data bandwidth, lower latency, and growth capability to ultimately incorporate secure, jam-resistant J-Voice and three growth slots which could host additional waveforms (Mobile User Objective System (MUOS), Integrated Broadcast Service (IBS), etc.). Also, the terminals will include Concurrent Contention Receive (CCR) capabilities, which are ACC requirements and critical to F-16 Link 16 network sustainability and capability. To fully enable MIDS-JTRS, a subset of Pre-Block F-16 aircraft require installation of Center Display Units.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys, or bridge buys limited to the program of record quantity. This funding request also supports flight testing and technical data updates, as required.

Milestone/Development Status

The F-16 MIDS-JTRS program has purchased all Line Replaceable Units (LRUs) (i.e. terminals and power supplies). All remaining Group-A kits will be purchased, FY23Q1. Only 28% of the F-16 fleet will be in compliance with the NSA cryptographic modernization mandate in time, by 1 Jan 2022.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	32.293	-	9.779	-	9.779	-	-	-	-
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.800	-	0.000	-	0.000	-	-	-	-
AFR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	0.000	-	0.000	-	-	-	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 661653 / MIDS-JTRS
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	33.093	0.000	9.779	0.000	9.779	-	-	-	-

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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01600 / F-16					Modification Number / Title: 661653 / MIDS-JTRS			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs: 0207445F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 2: MIDS</i>													
B Kits													
Recurring													
MIDS:EQUIPMENT Group B (Active)	48 / 10.864	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 10.864	
MIDS:EQUIPMENT Group B (Guard)	182 / 43.680	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	182 / 43.680	
MIDS:EQUIPMENT Group B (Reserve)	54 / 12.964	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 12.964	
<i>Subtotal: Recurring</i>	- / 67.508	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 67.508	
<i>Subtotal: MIDS</i>	- / 67.508	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 67.508	
<i>Modification Item 2 of 2: MIDS Terminals</i>													
B Kits													
Recurring													
MIDS Terminals:EQUIPMENT Group B (Active)	612 / 147.772	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	612 / 147.772	
MIDS Terminals:EQUIPMENT Group B (Guard)	- / 0.000	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.000	
MIDS Terminals:EQUIPMENT Group B (Reserve)	- / 0.000	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.000	
<i>Subtotal: Recurring</i>	- / 147.772	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 147.772	
<i>Subtotal: MIDS Terminals</i>	- / 147.772	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 147.772	
<i>Subtotal: Procurement, All Modification Items</i>	- / 215.280	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 215.280	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 42.517	- / 12.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 30.517	
GROUP B: TOTAL NONRECURRING	- / 0.000	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.000	
SUPPORT-EQUIP	- / 140.745	- / 19.493	- / -	- / 11.579	- / -	- / 11.579	- / -	- / -	- / -	- / -	- / -	- / 51.817	
Change Orders	- / 0.000	- / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.000	
OTHER GOVT	- / 14.405	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 14.405	
<i>Subtotal: Support</i>	- / 2.633	- / 31.493	- / -	- / 11.579	- / -	- / 11.579	- / -	- / -	- / -	- / -	- / -	- / 35.705	
Installation													
<i>Modification Item 1 of 2: MIDS</i>	100 / 20.000	8 / 1.600	- / -	41 / 8.200	- / -	41 / 8.200	- / -	- / -	- / -	- / -	- / -	149 / 29.800	
<i>Subtotal: Installation</i>	100 / 20.000	8 / 1.600	- / -	41 / 8.200	- / -	41 / 8.200	- / -	- / -	- / -	- / -	- / -	149 / 29.800	
Total													
Total Cost (Procurement + Support + Installation)	237.913	33.093	0.000	9.779	0.000	9.779	-	-	-	-	-	280.785	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 661653 / MIDS-JTRS
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 2: MIDS

Manufacturer Information

Manufacturer Name: ViaSat and DLS	Manufacturer Location: Navy MPO, San Diego CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Depot Field Team

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	100 / 20.000	8 / 1.600	- / -	41 / 8.200	- / -	41 / 8.200	- / -	- / -	- / -	- / -	- / -	149 / 29.800
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	100 / 20.000	8 / 1.600	- / -	41 / 8.200	- / -	41 / 8.200	- / -	- / -	- / -	- / -	- / -	149 / 29.800

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	100	8	-	-	-	-	-	-	-	30	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	149
Out	90	10	8	-	-	-	-	-	-	-	30	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	149

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01600 / F-16			Modification Number / Title: 661653 / MIDS-JTRS	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 2 of 2: MIDS Terminals							
Manufacturer Information							
Manufacturer Name: ViaSat and DLS				Manufacturer Location: Navy MPO, San Diego CA			
Administrative Leadtime (in Months): 12				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): Org/Intermediate					Installation Quantity: 612		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 694050 / AESA Radars

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	433.716	332.878	385.439	286.141	0.000	286.141	166.925	182.028	38.487	49.930	-	1,875.544
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	433.716	332.878	385.439	286.141	0.000	286.141	166.925	182.028	38.487	49.930	-	1,875.544
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	433.716	332.878	385.439	286.141	0.000	286.141	166.925	182.028	38.487	49.930	-	1,875.544

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The purpose of the F-16 Active Electronically Scanned Array (AESA) Radar program is to procure, install and sustain AESA radars plus spares for the Air National Guard (ANG), Air Force Reserve, and the active duty Air Force F-16s, across all blocks of USAF F-16 aircraft (Block 30/32/40/42/50/52). The new AESA radar will replace the legacy mechanically-scanned AN/APG-68 radar. The key requirements are enhanced Air to Air capability and an expedited delivery schedule. It is imperative to operationally field the AESA radar in support of homeland defense against evolving threats.

The Joint Emergent Operational Need (JEON) requirement was issued in March 2015 and includes improved air-to-air detect and track in support of homeland defense performing the Aerospace Control Alert (ACA) mission. The initial acquisition of 72 radars and associated spares in FY17/18 reflects the JEON portion of this requirement. To facilitate the most expedient operational capability, the JEON integration will be accomplished via the 1553 legacy interface with minimal changes to the F-16 aircraft core Operational Flight Program (OFP) during Phase 1 of the F-16 AESA program. This also includes the purchase of Center Display Units (CDU), High-Speed Data Network (HSDN) components, and Remote Interface Panels (RIPs), which are derived requirements for full Phase III AESA functionality. Subsequent AESA radar buys began in 2QFY20 to outfit up to 510 F-16's for the Combat Air Force (CAF) and ANG.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys, or bridge buys limited to the program of record quantity. This funding request also supports flight testing and technical data updates, as required.

AESA Radar program will continue Phase III development efforts for full CDD radar development including flight testing and TO development.

Milestone/Development Status

Fielding of the first 72 JEON radars commenced at Andrews AFB in 4QFY19 and Initial Operational Capability (IOC) readiness (8 APG-83 systems installed) was achieved 1QFY20. Milestone C Production was approved 2QFY21 to support Phase III (510 radars) fielding beginning 1QFY22.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	270.879	312.102	274.855	-	274.855	151.505	165.350	38.487	49.930
AFNG	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	61.999	73.337	11.286	-	11.286	15.420	16.678	-	-
Total:	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 694050 / AESA Radars
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	332.878	385.439	286.141	0.000	286.141	166.925	182.028	38.487	49.930

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01600 / F-16				Modification Number / Title: 694050 / AESA Radars				
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:						
Models of Systems Affected: F-16			Modification Type: Capability Improvement				Related RDT&E PEs: 0207133F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 2: AESA JEON</i>												
B Kits												
Recurring												
AESA JEON:EQUIPMENT Group B (Guard)	72 / 166.658	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 166.658
<i>Subtotal: Recurring</i>	- / 166.658	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 166.658
<i>Subtotal: AESA JEON</i>	- / 166.658	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 166.658
<i>Modification Item 2 of 2: AESA Radar</i>												
B Kits												
Recurring												
AESA Radar:EQUIPMENT Group B (Active)	33 / 63.873	85 / 165.558	83 / 200.431	35 / 132.300	- / -	35 / 132.300	51 / 114.497	47 / 128.228	13 / 28.600	- / -	- / -	347 / 833.487
AESA Radar:EQUIPMENT Group B (Guard)	30 / 72.431	30 / 58.194	31 / 68.885	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	91 / 199.510
<i>Subtotal: Recurring</i>	- / 136.304	- / 223.752	- / 269.316	- / 132.300	- / -	- / 132.300	- / 114.497	- / 128.228	- / 28.600	- / -	- / -	- / 1,032.997
<i>Subtotal: AESA Radar</i>	- / 136.304	- / 223.752	- / 269.316	- / 132.300	- / -	- / 132.300	- / 114.497	- / 128.228	- / 28.600	- / -	- / -	- / 1,032.997
<i>Subtotal: Procurement, All Modification Items</i>	- / 302.962	- / 223.752	- / 269.316	- / 132.300	- / -	- / 132.300	- / 114.497	- / 128.228	- / 28.600	- / -	- / -	- / 1,199.655
Support (All Modification Items)												
SUPPORT-EQUIP	273 / 46.127	- / 8.353	- / 3.444	- / 2.300	- / -	- / 2.300	- / -	- / -	- / -	- / -	- / -	273 / 60.224
Change Orders	- / 10.701	- / 19.620	- / 8.962	- / 4.200	- / -	- / 4.200	- / -	- / -	- / -	- / -	- / -	- / 43.483
OTHER GOVT	- / 47.139	- / 37.342	- / 46.353	- / 14.373	- / -	- / 14.373	- / -	- / -	- / -	- / 34.866	- / -	- / 180.073
ICS-Labor	- / 5.372	- / 3.334	- / 1.259	- / 4.700	- / -	- / 4.700	- / -	- / -	- / -	- / -	- / -	- / 14.665
Mod of Spares	- / 17.527	- / 36.672	- / 44.657	- / 10.000	- / -	- / 10.000	- / -	- / -	- / -	- / -	- / -	- / 108.856
Data	- / -	- / -	- / -	- / 2.900	- / -	- / 2.900	- / -	- / -	- / -	- / -	- / -	- / 2.900
<i>Subtotal: Support</i>	273 / 126.866	- / 105.321	- / 104.675	- / 38.473	- / -	- / 38.473	- / -	- / -	- / -	- / 34.866	- / -	273 / 410.201
Installation												
<i>Modification Item 1 of 2: AESA JEON</i>	39 / 3.888	33 / 3.805	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 7.693
<i>Modification Item 2 of 2: AESA Radar</i>	- / -	- / -	54 / 11.448	92 / 115.368	- / -	92 / 115.368	102 / 52.428	100 / 53.800	62 / 9.887	28 / 15.064	- / -	438 / 257.995
<i>Subtotal: Installation</i>	39 / 3.888	33 / 3.805	54 / 11.448	92 / 115.368	- / -	92 / 115.368	102 / 52.428	100 / 53.800	62 / 9.887	28 / 15.064	- / -	510 / 265.688
Total												
Total Cost (Procurement + Support + Installation)	433.716	332.878	385.439	286.141	0.000	286.141	166.925	182.028	38.487	49.930	-	1,875.544

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 694050 / AESA Radars
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 2: AESA JEON

Manufacturer Information

Manufacturer Name: Northrup-Grumman	Manufacturer Location: Baltimore, Maryland
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: Contract Field Team

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	39 / 3.888	33 / 3.805	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 7.693
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	39 / 3.888	33 / 3.805	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 7.693

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	39	9	9	9	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	72
Out	30	9	9	9	9	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	72

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022																					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2											P-1 Line Item Number / Title: F01600 / F-16											Modification Number / Title: 694050 / AESA Radars										
ID Code (A=Service Ready, B=Not Service Ready) : A											MDAP/MAIS Code:																					
Modification Item 2 of 2: AESA Radar																																
Manufacturer Information																																
Manufacturer Name: Northrup-Grumman													Manufacturer Location: Baltimore, Maryland																			
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		Jun 2021				Jun 2022				Jun 2023				Jun 2024				Jun 2025				Jun 2026										
Delivery Dates		Jun 2022				Jun 2023				Jun 2024				Jun 2025				Jun 2026				Jun 2027										
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		- / -		- / -		54 / 11.448		9 / 11.286		- / -		9 / 11.286		- / -		- / -		- / -		- / -		- / -		- / -		63 / 22.734						
FY 2021		- / -		- / -		- / -		83 / 104.082		- / -		83 / 104.082		32 / 16.448		- / -		- / -		- / -		- / -		- / -		115 / 120.530						
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		70 / 35.980		44 / 23.672		- / -		- / -		- / -		- / -		114 / 59.652						
FY 2023		- / -		- / -		- / -		- / -		- / -		- / -		- / -		35 / 18.830		- / -		- / -		- / -		- / -		35 / 18.830						
FY 2024		- / -		- / -		- / -		- / -		- / -		- / -		- / -		21 / 11.298		30 / 3.487		- / -		- / -		- / -		51 / 14.785						
FY 2025		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		32 / 6.400		15 / 8.070		- / -		- / -		47 / 14.470						
FY 2026		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		13 / 6.994		- / -		13 / 6.994						
FY 2027		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
Total		- / -		- / -		54 / 11.448		92 / 115.368		- / -		92 / 115.368		102 / 52.428		100 / 53.800		62 / 9.887		28 / 15.064		- / -		- / -		438 / 257.995						
Installation Schedule																																
		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	0	-	-	-	-	15	7	12	20	22	21	21	28	27	25	25	25	25	25	25	25	17	15	15	15	15	13	-	-	0	438	
Out	0	-	-	-	-	-	-	18	19	15	16	16	16	17	16	16	16	25	25	25	30	30	30	30	30	30	18	-	-	0	438	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F02200 / F-22A
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207138F	Other Related Program Elements: 0207138F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,215.405	357.586	407.927	764.222	-	764.222	792.367	798.078	825.890	869.667	113.475	7,144.617
Less PY Advance Procurement (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	-	-	-	-	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,215.405	357.586	407.927	764.222	-	764.222	792.367	798.078	825.890	869.667	113.475	7,144.617
Plus CY Advance Procurement (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	-	-	-	-	0.000
Total Obligation Authority (<i>\$ in Millions</i>)	2,215.405	357.586	407.927	764.222	-	764.222	792.367	798.078	825.890	869.667	113.475	7,144.617

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-22 Raptor is a multi-mission fighter aircraft that combines low observability, supercruise, maneuverability and integrated avionics to make it the world's most capable air superiority aircraft. The F-22 provides air superiority to the Joint Force, access in the highly contested operational environment, as well as homeland and cruise missile defense into the 2040s. The F-22 is currently in the post-production operations phase of its acquisition lifecycle and therefore utilizes an acquisition strategy of balanced modernization and sustainment to maintain its asymmetric war fighting advantage. F-22 modernization and sustainment programs invest in upgrades to the air vehicle, engine, and training systems to improve F-22 weapons, communications, navigation, pilot systems, and electronic warfare capabilities.

Determined attempts to deny US air superiority from peer threats within the Indo-Pacific region have increased the need for investments and activities to build forces that are lethal, resilient, ready, and postured to respond quickly and effectively against aggression. The F-22 Raptor is a key component of these efforts and necessary for increasing joint force lethality and maintaining a credible deterrent in theater.

The F-22 Raptor's Modernization is conducted using a rapid acquisition construct leveraging commercial best practices such as agile and lean. This allows the F-22 Raptor program to develop, test, and field software/hardware from multiple programs (product lines) using an annual delivery cadence for capabilities as they mature. The F-22 Raptor program's utilization of these commercial best practices during production activities allows for concurrent installations of mature Group A and Group B hardware of multiple product lines, delivering warfighter capabilities to the field earlier than historical acquisition practices.

Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill Federal Aviation Administration (FAA) or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

Funding for the exhibit contained in Program (PE) 0207138F.

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

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	-	-	-	-	-	-	-	-	-
Total Obligation Authority	326.198	386.218	735.791	-	735.791	632.377	625.956	666.893	721.951

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force							Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft					P-1 Line Item Number / Title: F02200 / F-22A					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: 0207138F			Other Related Program Elements: 0207138F				
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
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	31.388	21.709	28.431	-	28.431	159.990	172.122	158.997	147.716
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	357.586	407.927	764.222	-	764.222	792.367	798.078	825.890	869.667

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
F02200 / F-22A

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207138F **Other Related Program Elements:** 0207138F

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-40a***	F22014 / F119 Engine Modifications (Other)				- / 88.550	- / 9.009	- / 3.078	- / 2.760	- / -	- / 2.760
P-40a***	F22022 / Structures Retrofit Plan (Service Life Extension)				- / 275.192	- / -	- / -	- / -	- / -	- / -
P-40a***	F22024 / Trainers Modernization (Safety)				- / 125.141	- / 7.037	- / 16.888	- / 4.239	- / -	- / 4.239
P-40a***	F22027 / Crypto Modernization (Capability Improvement)				- / 16.479	- / -	- / -	- / -	- / -	- / -
P-40a***	F22031 / Viability (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	F22035 / Low Drag Tanks and Pylons (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / Reliability and Maintainability Program (Reliability & Maintainability)		A		- / 1,515.038	- / 72.833	- / 160.192	- / 101.014	- / 0.000	- / 101.014
P-3a	2 / Link 16 (Capability Improvement)		A		- / 125.487	- / 130.625	- / 19.476	- / 28.716	- / 0.000	- / 28.716
P-3a	3 / Mode 5 Challenge and Reply (Capability Improvement)		A		- / 48.596	- / 0.000	- / 0.000	- / 8.730	- / 0.000	- / 8.730
P-3a	4 / Sensor Enhancement (Capability Improvement)		B		- / 20.922	- / 138.082	- / 208.293	- / 589.372	- / 0.000	- / 589.372
P-3a	5 / Navigation Systems Hardware (Capability Improvement)		A		- / 0.000	- / 0.000	- / 0.000	- / 29.391	- / 0.000	- / 29.391
P-40	Total Gross/Weapon System Cost				- / 2,215.405	- / 357.586	- / 407.927	- / 764.222	- / -	- / 764.222

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-40a***	F22014 / F119 Engine Modifications (Other)				- / 11.995	- / 4.883	- / 3.077	- / 3.610	- / 0.180	- / 127.142
P-40a***	F22022 / Structures Retrofit Plan (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / 275.192
P-40a***	F22024 / Trainers Modernization (Safety)				- / 12.285	- / 4.950	- / 11.934	- / 4.879	- / -	- / 187.353
P-40a***	F22027 / Crypto Modernization (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 16.479
P-40a***	F22031 / Viability (Capability Improvement)				- / -	- / 88.103	- / 118.702	- / 170.326	- / 2.563	- / 379.694
P-40a***	F22035 / Low Drag Tanks and Pylons (Capability Improvement)				- / 43.815	- / 84.572	- / 88.215	- / 127.704	- / 84.050	- / 428.356
P-3a	1 / Reliability and Maintainability Program (Reliability & Maintainability)		A		- / 93.461	- / 94.735	- / 96.236	- / 97.298	- / 0.000	- / 2,230.807
P-3a	2 / Link 16 (Capability Improvement)		A		- / 20.559	- / 0.000	- / 0.000	- / -	- / -	- / 324.863
P-3a	3 / Mode 5 Challenge and Reply (Capability Improvement)		A		- / 88.567	- / 91.954	- / 31.770	- / 7.109	- / 6.780	- / 283.506
P-3a	4 / Sensor Enhancement (Capability Improvement)		B		- / 486.628	- / 382.075	- / 413.651	- / 425.739	- / 0.000	- / 2,664.762
P-3a	5 / Navigation Systems Hardware (Capability Improvement)		A		- / 35.057	- / 46.806	- / 62.305	- / 33.002	- / 19.902	- / 226.463
P-40	Total Gross/Weapon System Cost				- / 792.367	- / 798.078	- / 825.890	- / 869.667	- / 113.475	- / 7,144.617

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod F22030, Mode 5 Challenge and Reply, is a new start.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft		P-1 Line Item Number / Title: F02200 / F-22A
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207138F	Other Related Program Elements: 0207138F
Line Item MDAP/MAIS Code: N/A		
This program, P-3A Mod F22034, Navigation Systems Hardware, is a new start.		
Modifications requesting FY23 funding are as follows: F119 Engine Modifications (Other); Trainers Modernization (Safety); Reliability and Maintainability Program (Reliability & Maintainability); Link 16 (Capability Improvement); Mode 5 Reply and Challenge (Capability Improvement); Sensor Enhancement (Capability Improvement); and Navigation Systems (Capability Improvement). Further details are contained in the P-3A's.		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 1 / Reliability and Maintainability Program

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,515.038	72.833	160.192	101.014	0.000	101.014	93.461	94.735	96.236	97.298	0.000	2,230.807
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,515.038	72.833	160.192	101.014	0.000	101.014	93.461	94.735	96.236	97.298	0.000	2,230.807
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,515.038	72.833	160.192	101.014	0.000	101.014	93.461	94.735	96.236	97.298	0.000	2,230.807

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Reliability, Availability, and Maintainability Program (RAMP) provides solution identification and integration of modifications to improve reliability, availability and maintainability (RAM) for the F-22 fleet. The associated RAMP efforts (O&S funded) develop candidate initiatives, which are down-selected by Air Combat Command, for implementation based on development maturity and impact on the F-22 life cycle costs.

The RAMP program includes funding for retrofit installation labor, modifications to address corrosion, reduce maintenance hours, increase safety and provide urgent response requirements identified by the user to the F-22 fleet. Urgent response requirements are quick demand requirements addressing safety or air superiority, ensuring the warfighter and the weapon system are operating as intended. RAMP funds may be used to resolve emerging safety of flight, accommodate technology insertion and fulfill Federal Aviation Administration requirements or other mandates necessary to ensure continued aircrew safety and mission effectiveness. RAMP modifications currently include individual projects which are retrofitted onto aircraft based on aircraft downtime opportunities.

Determined attempts to deny US air superiority from peer threats within the Indo-Pacific region have increased the need for investments and activities to build forces that are lethal, resilient, ready, and postured to respond quickly and effectively against aggression. The F-22 Raptor is a key component of these efforts and necessary for increasing joint force lethality and maintaining a credible deterrent in theater.

In FY23, RAMP kit procurement and installation will continue on projects such as: Power and reliability increase for the Main Power Generator; Core Processing Software (CORE32) which replaces 1st generation fiber optic segments for Common Integrated Processor (CIP) backplane, improving backplane fiber reliability and interoperability; Low Observable (LO) Mighty Tough Boot, which replaces less durable boot material and leads to an estimated 3% increase in aircraft reliability; Very High Frequency (VHF) Antenna which includes an updated antenna design allowing for the retrofit of a updated antenna core, modified spar design, and leading edge. All RAMP retrofit kits have component level improvement metrics and contribute to the overall reliability, availability, maintainability and safety of the F-22.

Kit installations are completed at either the depot or by a contractor field team depending on the complexity of the installation effort and scheduled aircraft downtime opportunities. Quantities are based on an assumed maturity of the solution and are subject to change over time. The average cost per kit varies based on planned retrofit kits in a given year, the complexity of the materials, and labor required to integrate/ install on the fleet.

RAMP Mod funds may be used for mission support costs to include, but not limited to, travel, computer costs, and other miscellaneous contract support.

Milestone/Development Status

Installation of RAMP mods continues for 10 vetted & approved solutions in FY23 - 6 Reliability/1 Availability/3 Maintainability improvements.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 1 / Reliability and Maintainability Program
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ID Code (A=Service Ready, B=Not Service Ready) : A **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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	65.063	140.000	86.375	-	86.375	80.174	81.265	82.113	85.388
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.770	20.192	14.639	-	14.639	13.287	13.470	14.123	11.910
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	72.833	160.192	101.014	0.000	101.014	93.461	94.735	96.236	97.298

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F02200 / F-22A				Modification Number / Title: 1 / Reliability and Maintainability Program				
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:						
Models of Systems Affected: F-22			Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207138F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: RAMP Kits</i>												
B Kits												
Recurring												
RAMP Kits:EQUIPMENT Group B (Active)	9,170 / 763.557	643 / 31.226	653 / 113.387	1,154 / 61.544	- / -	1,154 / 61.544	1,928 / 52.392	1,339 / 57.638	305 / 61.835	1,050 / 62.605	- / -	16,242 / 1,204.184
RAMP Kits:EQUIPMENT Group B (Guard)	1,374 / 74.676	94 / 3.430	96 / 16.670	198 / 10.560	- / -	198 / 10.560	329 / 8.940	230 / 9.901	54 / 10.948	151 / 9.003	- / -	2,526 / 144.128
<i>Subtotal: Recurring</i>	- / 838.233	- / 34.656	- / 130.057	- / 72.104	- / -	- / 72.104	- / 61.332	- / 67.539	- / 72.783	- / 71.608	- / -	- / 1,348.312
<i>Subtotal: RAMP Kits</i>	- / 838.233	- / 34.656	- / 130.057	- / 72.104	- / -	- / 72.104	- / 61.332	- / 67.539	- / 72.783	- / 71.608	- / -	- / 1,348.312
<i>Subtotal: Procurement, All Modification Items</i>	- / 838.233	- / 34.656	- / 130.057	- / 72.104	- / -	- / 72.104	- / 61.332	- / 67.539	- / 72.783	- / 71.608	- / -	- / 1,348.312
Support (All Modification Items)												
Change Orders	- / 20.788	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.788
OTHER GOVT	- / 148.040	- / 4.148	- / 2.657	- / 1.261	- / -	- / 1.261	- / 2.695	- / 2.991	- / 2.345	- / 2.562	- / -	- / 66.699
<i>Subtotal: Support</i>	- / 68.828	- / 4.148	- / 2.657	- / 1.261	- / -	- / 1.261	- / 2.695	- / 2.991	- / 2.345	- / 2.562	- / -	- / 87.487
Installation												
<i>Modification Item 1 of 1: RAMP Kits</i>	10,544 / 607.977	737 / 34.029	749 / 27.478	1,352 / 27.649	- / -	1,352 / 27.649	2,257 / 29.434	1,569 / 24.205	359 / 21.108	1,201 / 23.128	- / -	18,768 / 795.008
<i>Subtotal: Installation</i>	10,544 / 607.977	737 / 34.029	749 / 27.478	1,352 / 27.649	- / -	1,352 / 27.649	2,257 / 29.434	1,569 / 24.205	359 / 21.108	1,201 / 23.128	- / -	18,768 / 795.008
Total												
Total Cost (Procurement + Support + Installation)	1,515.038	72.833	160.192	101.014	0.000	101.014	93.461	94.735	96.236	97.298	0.000	2,230.807

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 1 / Reliability and Maintainability Program
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 1: RAMP Kits

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Hill AFB
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 0

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

Installation Information

Method of Implementation: Contract Field Team

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	1,938 / 84.233	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,938 / 84.233
FY 2021	- / -	231 / 10.666	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	231 / 10.666
FY 2022	- / -	- / -	235 / 8.622	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	235 / 8.622
FY 2023	- / -	- / -	- / -	431 / 8.673	- / -	431 / 8.673	- / -	- / -	- / -	- / -	- / -	431 / 8.673
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	728 / 9.235	- / -	- / -	- / -	- / -	728 / 9.235
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	498 / 7.587	- / -	- / -	- / -	498 / 7.587
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	113 / 6.644	- / -	- / -	113 / 6.644
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	376 / 7.241	- / -	376 / 7.241
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,938 / 84.233	231 / 10.666	235 / 8.622	431 / 8.673	- / -	431 / 8.673	728 / 9.235	498 / 7.587	113 / 6.644	376 / 7.241	- / -	4,550 / 142.901

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	1,938	57	58	58	58	58	59	59	59	108	108	108	107	182	182	182	182	125	125	124	124	28	28	28	29	94	94	94	94	0	4,550
Out	1,938	57	58	58	58	58	59	59	59	108	108	108	107	182	182	182	182	125	125	124	124	28	28	28	29	94	94	94	94	0	4,550

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	8,606 / 523.744	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8,606 / 523.744

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2		P-1 Line Item Number / Title: F02200 / F-22A
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Modification Item 1 of 1: RAMP Kits

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)
FY 2021	- / -	506 / 23.363	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	506 / 23.363
FY 2022	- / -	- / -	514 / 18.856	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	514 / 18.856
FY 2023	- / -	- / -	- / -	921 / 18.976	- / -	921 / 18.976	- / -	- / -	- / -	- / -	- / -	921 / 18.976
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1,529 / 20.199	- / -	- / -	- / -	- / -	1,529 / 20.199
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,071 / 16.618	- / -	- / -	- / -	1,071 / 16.618
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	246 / 14.464	- / -	- / -	246 / 14.464
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	825 / 15.887	- / -	825 / 15.887
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	8,606 / 523.744	506 / 23.363	514 / 18.856	921 / 18.976	- / -	921 / 18.976	1,529 / 20.199	1,071 / 16.618	246 / 14.464	825 / 15.887	- / -	14,218 / 652.107

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	8,606	126	126	127	127	128	128	129	129	230	230	230	231	382	382	382	383	267	268	268	268	61	61	62	62	206	206	206	207	0	14,218
Out	8,606	126	126	127	127	128	128	129	129	230	230	230	231	382	382	382	383	267	268	268	268	61	61	62	62	206	206	206	207	0	14,218

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 2 / Link 16

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	125.487	130.625	19.476	28.716	0.000	28.716	20.559	0.000	0.000	-	-	324.863
Less PY Advance Procurement (\$ in Millions)	0.000	-	-	-	-	-	-	-	-	-	-	0.000
Net Procurement (P-1) (\$ in Millions)	125.487	130.625	19.476	28.716	0.000	28.716	20.559	0.000	0.000	-	-	324.863
Plus CY Advance Procurement (\$ in Millions)	0.000	-	-	-	-	-	-	-	-	-	-	0.000
Total Obligation Authority (\$ in Millions)	125.487	130.625	19.476	28.716	0.000	28.716	20.559	0.000	0.000	-	-	324.863

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Link 16 modification will procure and install the hardware necessary to field Link 16 Transmit capability on the F-22 Raptor. Link 16 transmit will be fielded via Multi-functional Information Distribution Service Joint Tactical Radio System (MIDS/JTRS). Legacy Link 16 receive capabilities will be re-hosted to the MIDS/JTRS. Link 16 capabilities will be enabled by Open System Architecture (OSA). Procurement of an OSA system, MIDS/JTRS, L-band antennas, and other supporting hardware are required to enable Link 16 capabilities.

Link 16 began fielding installs in Q1 FY22 and will continue through Q4 FY25. This hardware delivery includes mission support requirements and other government costs to include, but not limited to, support equipment, training devices, specialized test equipment, and long-lead assets. Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness. Mode 5 Reply will be fielded concurrently with Link 16 and will utilize the same hardware being procured for this capability. Installation for Link 16 and MIDS/JTRS items occurs at the same time so installation costs are combined in the Link 16 installation cost line.

The F-22 Raptor's Modernization is conducted using a rapid acquisition construct leveraging commercial best practices such as agile and lean. This allows the F-22 Raptor program to develop, test, and field software/hardware from multiple programs (product lines) using an annual delivery cadence for capabilities as they mature. The F-22 Raptor program's utilization of these commercial best practices during production activities will allow for concurrent installations of mature Group A and Group B hardware of multiple product lines, delivering warfighter capabilities to the field earlier than historical acquisition practices. Due to contracting limitations, funding for installations is required prior to 1 October each year to avoid work stoppages and maintain aircraft modification schedules.

Determined attempts to deny US air superiority from peer threats within the Indo-Pacific region have increased the need for investments and activities to build forces that are lethal, resilient, ready, and postured to respond quickly and effectively against aggression. The F-22 Raptor is a key component of these efforts and necessary for increasing joint force lethality and maintaining a credible deterrent in theater.

Milestone/Development Status

Software has been integrated onto production representative hardware and testing is in progress in system-level labs. Developmental flight test began in Q2 FY20 and concluded Q4 FY21. A production decision was approved in Q4 FY19. Production contracts for Lot 1 and 2 have been awarded and the proposal has been received for Lot 3. Hardware delivery and installation began on combat aircraft in Q1 FY22, and will continue through FY25 when the last of the 143 aircraft receive hardware modifications.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	112.654	19.476	28.716	-	28.716	9.345	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 2 / Link 16
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ID Code (A=Service Ready, B=Not Service Ready) : A **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
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.971	-	-	-	-	11.214	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	130.625	19.476	28.716	0.000	28.716	20.559	0.000	0.000	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F02200 / F-22A					Modification Number / Title: 2 / Link 16		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Models of Systems Affected: F-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0207138F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 2:</i> Link 16												
B Kits												
Recurring												
Link 16:EQUIPMENT Group B (Active)	24 / 36.036	91 / 96.205	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 132.241
Link 16:EQUIPMENT Group B (Guard)	- / -	27 / 17.971	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 17.971
<i>Subtotal: Recurring</i>	- / 36.036	- / 114.176	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 150.212
<i>Subtotal: Link 16</i>	- / 36.036	- / 114.176	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 150.212
<i>Modification Item 2 of 2:</i> MIDS/JTRS												
B Kits												
Recurring												
MIDS/JTRS:EQUIPMENT Group B (Active)	122 / 83.217	5 / 1.762	- / -	15 / 10.167	- / -	15 / 10.167	- / -	- / -	- / -	- / -	- / -	142 / 95.146
<i>Subtotal: Recurring</i>	- / 83.217	- / 1.762	- / -	- / 10.167	- / -	- / 10.167	- / -	- / -	- / -	- / -	- / -	- / 95.146
<i>Subtotal: MIDS/JTRS</i>	- / 83.217	- / 1.762	- / -	- / 10.167	- / -	- / 10.167	- / -	- / -	- / -	- / -	- / -	- / 95.146
<i>Subtotal: Procurement, All Modification Items</i>	- / 119.253	- / 115.938	- / -	- / 10.167	- / -	- / 10.167	- / -	- / -	- / -	- / -	- / -	- / 245.358
Support (All Modification Items)												
Change Orders	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / 0.000
OTHER GOVT	- / 6.234	- / 4.150	- / 2.656	- / 1.259	- / -	- / 1.259	- / 2.699	- / -	- / -	- / -	- / -	- / 16.998
<i>Subtotal: Support</i>	- / 6.234	- / 4.150	- / 2.656	- / 1.259	- / -	- / 1.259	- / 2.699	- / -	- / -	- / -	- / -	- / 16.998
Installation												
<i>Modification Item 1 of 2:</i> Link 16	- / -	15 / 10.537	42 / 16.820	42 / 17.290	- / -	42 / 17.290	43 / 17.860	- / -	- / -	- / -	- / -	142 / 62.507
<i>Modification Item 2 of 2:</i> MIDS/JTRS	- / -	15 / 0.000	42 / 0.000	42 / 0.000	- / -	42 / 0.000	43 / 0.000	- / -	- / -	- / -	- / -	142 / 0.000
<i>Subtotal: Installation</i>	- / -	30 / 10.537	84 / 16.820	84 / 17.290	- / -	84 / 17.290	86 / 17.860	- / -	- / -	- / -	- / -	284 / 62.507
Total												
Total Cost (Procurement + Support + Installation)	125.487	130.625	19.476	28.716	0.000	28.716	20.559	0.000	0.000	-	-	324.863

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 2 / Link 16
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 2: Link 16

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Ft. Worth, TX
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 13

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

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	- / -	15 / 10.537	9 / 3.604	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 14.141
FY 2021	- / -	- / -	33 / 13.216	42 / 17.290	- / -	42 / 17.290	43 / 17.860	- / -	- / -	- / -	- / -	118 / 48.366
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	15 / 10.537	42 / 16.820	42 / 17.290	- / -	42 / 17.290	43 / 17.860	- / -	- / -	- / -	- / -	142 / 62.507

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	0	-	-	-	-	2	2	6	5	11	10	10	11	9	12	10	11	9	13	10	11	-	-	-	-	-	-	-	-	0	142
Out	0	-	-	-	-	2	2	6	5	11	10	10	11	9	12	10	11	9	13	10	11	-	-	-	-	-	-	-	-	0	142

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 2 / Link 16
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 2 of 2: MIDS/JTRS

Manufacturer Information

Manufacturer Name: Viasat	Manufacturer Location: Carlsbad, 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	May 2021		May 2023				
Delivery Dates	May 2022		May 2024				

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	- / -	15 / 0.000	42 / 0.000	42 / 0.000	- / -	42 / 0.000	23 / 0.000	- / -	- / -	- / -	- / -	122 / 0.000
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.000	- / -	- / -	- / -	- / -	5 / 0.000
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.000	- / -	- / -	- / -	- / -	15 / 0.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	15 / 0.000	42 / 0.000	42 / 0.000	- / -	42 / 0.000	43 / 0.000	- / -	- / -	- / -	- / -	142 / 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	0	-	-	-	-	2	2	6	5	11	10	10	11	9	12	10	11	9	13	10	11	-	-	-	-	-	-	-	-	0	142
Out	0	-	-	-	-	2	2	6	5	11	10	10	11	9	12	10	11	9	13	10	11	-	-	-	-	-	-	-	-	0	142

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 3 / Mode 5 Challenge and Reply

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	48.596	0.000	0.000	8.730	0.000	8.730	88.567	91.954	31.770	7.109	6.780	283.506
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	48.596	0.000	0.000	8.730	0.000	8.730	88.567	91.954	31.770	7.109	6.780	283.506
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	48.596	0.000	0.000	8.730	0.000	8.730	88.567	91.954	31.770	7.109	6.780	283.506

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod F22030, Mode 5 Challenge and Reply, is a new start.

The Mode 5 Level 1 (L1) Challenge and Reply was formally known as Tactical Mandates and Mode 5 IFF Transpond/Interrogate. Mode 5 L1 Challenge and Reply capabilities will be fielded on all Block 30/35 F-22 aircraft. The mandate for Mode 5 L1 Challenge and Reply improves Combat Identification and reduces the risk of fratricide in highly dynamic Joint combat environments. Mode 5 L1 Challenge and Reply will be fielded via Multi- functional Information Distribution Service Joint Tactical Radio System (MIDS/JTRS). Mode 5 L1 Challenge also requires an Antenna Electronics Unit (AEU) for full functionality. Mode 5 L1 Reply will begin fielding Q1 FY22 through Q4 FY25. Mode 5 L1 Challenge will begin fielding in Q1 FY25 through Q1 FY28.

The F-22 Raptor's Modernization is conducted using a rapid acquisition construct leveraging commercial best practices such as agile and lean. This allows the F-22 Raptor program to develop, test, and field software/hardware from multiple programs (product lines) using an annual delivery cadence for capabilities as they mature. The F-22 Raptor program's utilization of these commercial best practices during production activities will allow for concurrent installations of mature Group A and Group B hardware of multiple product lines, delivering war fighter capabilities to the field earlier than historical acquisition practices.

Determined attempts to deny US air superiority from peer threats within the Indo-Pacific region have increased the need for investments and activities to build forces that are lethal, resilient, ready, and postured to respond quickly and effectively against aggression. The F-22 Raptor is a key component of these efforts and necessary for increasing joint force lethality and maintaining a credible deterrent in theater.

Mode 5 Level 1 (L1) Challenge and Reply Mod funds may be used for mission support costs to include, but not limited to, travel, computer costs, and other miscellaneous contract support. Funds may also be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

Milestone/Development Status

Development is continuing for both Mode 5 Level 1 (L1) Challenge and Reply capabilities. Mode 5 L1 Reply software has been integrated onto production representative hardware. 1 out of 142 aircraft have been fielded with initial Mode 5 L1 Reply software enabling capabilities. Software is awaiting an approved Stage 4 Radio Frequency Authorization (RFA), expected in Q3FY22. Development of both Mode 5 Challenge and Reply capabilities continues, mainly consisting of annual software releases.

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

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 3 / Mode 5 Challenge and Reply
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ID Code (A=Service Ready, B=Not Service Ready) : A **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	-	-	5.210	-	5.210	77.399	72.084	21.863	5.704
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	3.520	-	3.520	11.168	19.870	9.907	1.405
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.000	0.000	8.730	0.000	8.730	88.567	91.954	31.770	7.109

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F02200 / F-22A					Modification Number / Title: 3 / Mode 5 Challenge and Reply			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: F-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0207138F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 2: AEU Retrofit</i>													
B Kits													
Recurring													
AEU Retrofit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	7 / 4.161	- / -	7 / 4.161	25 / 15.253	36 / 19.533	42 / 4.148	5 / 0.507	- / -	115 / 43.602	
AEU Retrofit:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	5 / 2.972	- / -	5 / 2.972	5 / 3.051	6 / 8.872	6 / 0.593	5 / 0.507	- / -	27 / 15.995	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 7.133	- / -	- / 7.133	- / 18.304	- / 28.405	- / 4.741	- / 1.014	- / -	- / 59.597	
<i>Subtotal: AEU Retrofit</i>	- / -	- / -	- / -	- / 7.133	- / -	- / 7.133	- / 18.304	- / 28.405	- / 4.741	- / 1.014	- / -	- / 59.597	
<i>Modification Item 2 of 2: Mode 5 Challenge and Reply</i>													
B Kits													
Recurring													
Mode 5 Challenge and Reply:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	61 / 51.204	51 / 42.096	3 / 4.879	- / -	- / -	115 / 98.179	
Mode 5 Challenge and Reply:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	9 / 7.555	9 / 10.305	9 / 8.235	- / -	- / -	27 / 26.095	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 58.759	- / 52.401	- / 13.114	- / -	- / -	- / 124.274	
<i>Subtotal: Mode 5 Challenge and Reply</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 58.759	- / 52.401	- / 13.114	- / -	- / -	- / 124.274	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 7.133	- / -	- / 7.133	- / 77.063	- / 80.806	- / 17.855	- / 1.014	- / -	- / 183.871	
Support (All Modification Items)													
SUPPORT-EQUIP	- / 48.596	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 48.596	
Data	- / -	- / -	- / -	- / 10.082	- / -	- / 10.082	- / 15.436	- / 3.307	- / 3.023	- / 0.385	- / 15.144	- / 17.377	
OTHER GOVT	- / -	- / -	- / -	- / 10.200	- / -	- / 10.200	- / 2.694	- / 2.992	- / 2.344	- / 2.563	- / 1.261	- / 12.054	
<i>Subtotal: Support</i>	- / 48.596	- / -	- / -	- / 10.282	- / -	- / 10.282	- / 8.130	- / 6.299	- / 5.367	- / 2.948	- / 6.405	- / 78.027	
Installation													
<i>Modification Item 1 of 2: AEU Retrofit</i>	- / -	- / -	- / -	12 / 1.315	- / -	12 / 1.315	30 / 3.374	42 / 4.849	48 / 5.688	10 / 1.217	- / -	142 / 16.443	
<i>Modification Item 2 of 2: Mode 5 Challenge and Reply</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 2.860	60 / 1.930	12 / 0.375	142 / 15.165	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	12 / 1.315	- / -	12 / 1.315	30 / 3.374	42 / 4.849	118 / 8.548	70 / 3.147	12 / 0.375	284 / 21.608	
Total													
Total Cost (Procurement + Support + Installation)	48.596	0.000	0.000	8.730	0.000	8.730	88.567	91.954	31.770	7.109	6.780	283.506	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 3 / Mode 5 Challenge and Reply
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 2: AEU Retrofit

Manufacturer Information

Manufacturer Name: Northrop Grumman Manufacturer Location: San Diego

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 10

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	12 / 1.315	- / -	12 / 1.315	- / -	- / -	- / -	- / -	- / -	12 / 1.315
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	30 / 3.374	- / -	- / -	- / -	- / -	30 / 3.374
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 4.849	- / -	- / -	- / -	42 / 4.849
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 5.688	- / -	- / -	48 / 5.688
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.217	- / -	10 / 1.217
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	12 / 1.315	- / -	12 / 1.315	30 / 3.374	42 / 4.849	48 / 5.688	10 / 1.217	- / -	142 / 16.443

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	7	7	8	8	10	10	11	11	12	12	12	12	10	142
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	7	7	8	8	10	10	11	11	12	12	12	12	10	142

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 3 / Mode 5 Challenge and Reply

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 2 of 2: Mode 5 Challenge and Reply

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 12

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

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 2.860	- / -	- / -	70 / 2.860
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 1.930	- / -	60 / 1.930
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.375	12 / 0.375
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 2.860	60 / 1.930	12 / 0.375	142 / 5.165

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	18	18	18	15	15	15	15	12	142
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	18	18	18	15	15	15	15	12	142

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 4 / Sensor Enhancement

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	20.922	138.082	208.293	589.372	0.000	589.372	486.628	382.075	413.651	425.739	0.000	2,664.762
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	20.922	138.082	208.293	589.372	0.000	589.372	486.628	382.075	413.651	425.739	0.000	2,664.762
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	20.922	138.082	208.293	589.372	0.000	589.372	486.628	382.075	413.651	425.739	0.000	2,664.762

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Sensor Enhancements Group A is currently part of the F-22 Rapid Fielding Middle Tier Acquisition (MTA) program and will fully utilize that authority, but will transition to a tailored Acquisition Category (ACAT) program to complete fielding of the remaining Group A and Group B assets. Sensor Enhancements improves Raptor's sensing and tracking and ensures Air Superiority by preserving the first look, first shot and first kill capabilities of Block 30/35 F-22 aircraft. This effort includes required supporting hardware of an Open Systems Architecture Interface Module (OSIF) and an advanced Infrared Search and Track (IRST) sensor that provides the F-22 with an asymmetric sensing advantage against potential adversaries while continuing to deliver on its unmatched maneuverability.

The F-22 Raptor's Modernization is conducted using a rapid acquisition construct leveraging commercial best practices such as agile and lean. This allows the F-22 Raptor program to develop, test, and field software/hardware from multiple programs (product lines) using an annual delivery cadence for capabilities as they mature. The F-22 Raptor program's utilization of these commercial best practices during production activities will allow for concurrent installations of mature Group A and Group B hardware of multiple product lines, delivering warfighter capabilities to the field earlier than historical acquisition practices. Due to contracting limitations, funding for installations is required prior to 1 October each year to avoid work stoppages and maintain aircraft modification schedules.

Determined attempts to deny US air superiority from peer threats within the Indo-Pacific region have increased the need for investments and activities to build forces that are lethal, resilient, ready, and postured to respond quickly and effectively against aggression. The F-22 Raptor is a key component of these efforts and necessary for increasing joint force lethality and maintaining a credible deterrent in theater.

Sensor Enhancement Mod funds may be used for mission support costs including, but not limited to, travel, computer costs, and other miscellaneous contract support.

Milestone/Development Status

Concurrent technology development and demonstration efforts continue for Sensor Enhancements. Group A kits are being purchased in FY22 for delivery and installation in FY23. Sensor Enhancements Group B will continue to mature through FY22 culminating in a flight test demonstration and production decision in Q4FY22.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	133.828	206.859	579.307	-	579.307	377.083	261.585	295.911	307.539
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.254	1.434	10.065	-	10.065	109.545	120.490	117.740	118.200
Total:	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 4 / Sensor Enhancement
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	138.082	208.293	589.372	0.000	589.372	486.628	382.075	413.651	425.739

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F02200 / F-22A					Modification Number / Title: 4 / Sensor Enhancement			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0207138F					
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)	
RDT&E PE #													
0207138F	- / 190.537	- / 269.978	- / 238.704	- / 160.200	- / -	- / 160.200	- / 101.880	- / 84.900	- / 95.300	- / 103.545	- / -	- / 1,245.044	
Procurement													
Modification Item 1 of 2: COMMON: OSIF													
B Kits													
Recurring													
COMMON: OSIF:EQUIPMENT Group B (Active)	- / -	- / -	45 / 5.400	66 / 7.920	- / -	66 / 7.920	31 / 3.720	- / -	- / -	- / -	- / -	142 / 17.040	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 5.400	- / 7.920	- / -	- / 7.920	- / 3.720	- / -	- / -	- / -	- / -	- / 17.040	
<i>Subtotal: COMMON: OSIF</i>	- / -	- / -	- / 5.400	- / 7.920	- / -	- / 7.920	- / 3.720	- / -	- / -	- / -	- / -	- / 17.040	
Modification Item 2 of 2: Sensor Enhancements													
A Kits													
Recurring													
Sensor Enhancements:INSTALL KITS Group A (Active)	27 / 14.355	31 / 16.482	- / -	46 / 39.719	- / -	46 / 39.719	12 / 10.616	- / -	- / -	- / -	- / -	116 / 81.172	
Sensor Enhancements:INSTALL KITS Group A (Guard)	5 / 2.659	8 / 4.254	- / -	9 / 7.771	- / -	9 / 7.771	5 / 4.424	- / -	- / -	- / -	- / -	27 / 19.108	
<i>Subtotal: Recurring</i>	- / 17.014	- / 20.736	- / -	- / 47.490	- / -	- / 47.490	- / 15.040	- / -	- / -	- / -	- / -	- / 100.280	
B Kits													
Recurring													
Sensor Enhancements:EQUIPMENT Group B (Active)	- / -	5 / 104.188	11 / 182.059	30 / 505.572	- / -	30 / 505.572	20 / 336.800	15 / 250.545	17 / 285.937	18 / 304.000	- / -	116 / 1,969.101	
Sensor Enhancements:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	6 / 101.107	7 / 120.490	7 / 117.740	7 / 118.200	- / -	27 / 1457.537	
<i>Subtotal: Recurring</i>	- / -	- / 104.188	- / 182.059	- / 505.572	- / -	- / 505.572	- / 437.907	- / 371.035	- / 403.677	- / 422.200	- / -	- / 2,426.638	
<i>Subtotal: Sensor Enhancements</i>	- / 17.014	- / 124.924	- / 182.059	- / 553.062	- / -	- / 553.062	- / 452.947	- / 371.035	- / 403.677	- / 422.200	- / -	- / 2,526.918	
<i>Subtotal: Procurement, All Modification Items</i>	- / 17.014	- / 124.924	- / 187.459	- / 560.982	- / -	- / 560.982	- / 456.667	- / 371.035	- / 403.677	- / 422.200	- / -	- / 2,543.958	
Support (All Modification Items)													
OTHER GOVT													
Data	- / 3.908	- / 4.148	- / 2.657	- / 3.583	- / -	- / 3.583	- / 5.390	- / 2.991	- / 2.344	- / 3.539	- / -	- / 28.560	
<i>Subtotal: Support</i>	- / 3.908	- / 13.158	- / 8.217	- / 14.913	- / -	- / 14.913	- / 15.050	- / 11.040	- / 9.974	- / 3.539	- / -	- / 79.799	
Installation													
Modification Item 2 of 2: Sensor Enhancements													
<i>Subtotal: Installation</i>	- / -	- / -	44 / 12.617	47 / 13.477	- / -	47 / 13.477	52 / 14.911	- / -	- / -	- / -	- / -	143 / 41.005	
Total													

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 4 / Sensor Enhancement
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Models of Systems Affected: F-22 **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0207138F

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)	20.922	138.082	208.293	589.372	0.000	589.372	486.628	382.075	413.651	425.739	0.000	2,664.762

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F02200 / F-22A			Modification Number / Title: 4 / Sensor Enhancement	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 2: COMMON: OSIF							
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): Org/Intermediate					Installation Quantity: 0		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 4 / Sensor Enhancement
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 2 of 2: Sensor Enhancements

Manufacturer Information

Manufacturer Name: Lockheed Martin Manufacturer Location: Ft. Worth, TX

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 16

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jul 2022		Dec 2022	Dec 2023			
Delivery Dates	Nov 2023		Apr 2024	Apr 2025			

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	32 / 9.176	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 9.176
FY 2021	- / -	- / -	12 / 3.441	27 / 7.742	- / -	27 / 7.742	- / -	- / -	- / -	- / -	- / -	39 / 11.183
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	20 / 5.735	- / -	20 / 5.735	35 / 10.037	- / -	- / -	- / -	- / -	55 / 15.772
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	17 / 4.874	- / -	- / -	- / -	- / -	17 / 4.874
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	44 / 12.617	47 / 13.477	- / -	47 / 13.477	52 / 14.911	- / -	- / -	- / -	- / -	143 / 41.005

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	0	0	0	0	0	0	0	0	0	5	15	12	12	12	9	11	15	15	12	13	12	-	-	-	-	-	-	-	-	0	143
Out	0	0	0	0	0	0	0	0	0	5	15	12	12	12	9	11	15	15	12	13	12	-	-	-	-	-	-	-	-	0	143

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 5 / Navigation Systems Hardware
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	29.391	0.000	29.391	35.057	46.806	62.305	33.002	19.902	226.463
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	29.391	0.000	29.391	35.057	46.806	62.305	33.002	19.902	226.463
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	29.391	0.000	29.391	35.057	46.806	62.305	33.002	19.902	226.463

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod F22034, Navigation Systems Hardware, is a new start.

The Navigation Systems modification line consists of the software and hardware integration and installation necessary to ensure the F-22's ability to maintain Precision, Navigation and Timing capabilities in GPS degraded environments.

The F-22 Global Positioning System (GPS) Military Code (M-Code) program consists of the software and hardware development, test and fielding necessary to ensure the F-22's ability to maintain Precision, Navigation and Timing (PNT) capabilities in GPS degraded environments. This effort will include the integration of Embedded GPS/Inertial Navigation System (INS) Modernization (EGI-M) (IAW M-Code Mandates in Public Law 111-383), replacement of the legacy GPS antenna with a robust Controlled Reception Pattern Antenna (CRPA) both working together to prevent exploitation of the weapon system by adversaries and to provide an anti-jam, anti-spoof PNT solution. Antennas and the EGI-M retrofit will be accomplished incrementally on all Block 30/35 F-22 Raptors. This includes: 143 antenna retrofit kits (27/143) for Air Force National Guard (AFNG) and 292 EGI-M retrofit kits (54/292 for AFNG).

The F-22 Raptor's Modernization is conducted using a rapid acquisition construct leveraging commercial best practices such as agile and lean. This allows the F-22 Raptor program to develop, test, and field software/hardware from multiple programs (product lines) using an annual delivery cadence for capabilities as they mature. The F-22 Raptor program's utilization of these commercial best practices during production activities will allow for concurrent installations of mature Group A and Group B hardware of multiple product lines, delivering warfighter capabilities to the field earlier than under historical acquisition practices.

Determined attempts to deny US air superiority from peer threats within the Indo-Pacific region have increased the need for investments and activities to build forces that are lethal, resilient, ready, and postured to respond quickly and effectively against aggression. The F-22 Raptor is a key component of these efforts and necessary for increasing joint force lethality and maintaining a credible deterrent in theater.

Milestone/Development Status

In FY23, CRPA hardware will be available for demonstration in NAVFEST. CRPA units will also enter F-22 laboratories for integration preceding flight testing. EGI-M Group B will still be in development under a contract managed by the PNT-Program Office; however, F-22's prime integrator is working on developing the associated Group A hardware to support final integration of the Group B design in FY23.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	29.391	-	29.391	35.057	46.806	62.305	33.002

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Exhibit P-3a, Individual Modification: PB 2023 Air Force							Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F02200 / F-22A				Modification Number / Title: 5 / Navigation Systems Hardware			
ID Code (A=Service Ready, B=Not Service Ready) : A					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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.000	0.000	29.391	0.000	29.391	35.057	46.806	62.305	33.002

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F02200 / F-22A					Modification Number / Title: 5 / Navigation Systems Hardware			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: F-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0207138F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 2: CRPA</i>													
B Kits													
Recurring													
CRPA:EQUIPMENT Group B (Active)	- / -	- / -	- / -	27 / 28.130	- / -	27 / 28.130	30 / 32.110	41 / 43.511	45 / 49.780	- / -	- / -	143 / 153.531	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 28.130	- / -	- / 28.130	- / 32.110	- / 43.511	- / 49.780	- / -	- / -	- / 153.531	
<i>Subtotal: CRPA</i>	- / -	- / -	- / -	- / 28.130	- / -	- / 28.130	- / 32.110	- / 43.511	- / 49.780	- / -	- / -	- / 153.531	
<i>Modification Item 2 of 2: EGI-M</i>													
B Kits													
Recurring													
EGI-M:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 9.153	35 / 29.309	73 / 18.199	143 / 56.661	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.153	- / 29.309	- / 18.199	- / 56.661	
<i>Subtotal: EGI-M</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.153	- / 29.309	- / 18.199	- / 56.661	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 28.130	- / -	- / 28.130	- / 32.110	- / 43.511	- / 58.933	- / 29.309	- / 18.199	- / 210.192	
Support (All Modification Items)													
OTHER GOVT													
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 1.261	- / -	- / 1.261	- / 2.695	- / 2.992	- / 2.345	- / 2.563	- / -	- / 11.856	
Installation													
<i>Modification Item 1 of 2: CRPA</i>													
<i>Modification Item 2 of 2: EGI-M</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.579	35 / 0.596	73 / 1.703	143 / 2.878	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.252	30 / 0.303	76 / 1.027	80 / 1.130	73 / 1.703	286 / 4.415	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	29.391	0.000	29.391	35.057	46.806	62.305	33.002	19.902	226.463	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 5 / Navigation Systems Hardware
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 2: CRPA

Manufacturer Information

Manufacturer Name: Ball Aerospace	Manufacturer Location: Westminster, CO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.252	- / -	- / -	- / -	- / -	27 / 0.252
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.303	- / -	- / -	- / -	30 / 0.303
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	41 / 0.448	- / -	- / -	41 / 0.448
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.534	- / -	45 / 0.534
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.252	30 / 0.303	41 / 0.448	45 / 0.534	- / -	143 / 1.537

Installation Schedule

PYS	In	Out	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		
	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	7	7	7	7	8	8	10	10	10	11	45	143
	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	7	7	7	7	8	8	10	10	10	11	45	143

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 5 / Navigation Systems Hardware
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 2 of 2: EGI-M

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Woodland Hills, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates						Jun 2026	Jun 2027
Delivery Dates						Jun 2027	Jun 2028

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.579	- / -	- / -	35 / 0.579
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.596	- / -	35 / 0.596
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	73 / 1.703	73 / 1.703
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.579	35 / 0.596	73 / 1.703	143 / 2.878

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	9	9	9	108	143
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	9	9	9	108	143

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F03500 / F-35 Modifications
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207142F	Other Related Program Elements: 0604800F, 0604840F
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Line Item MDAP/MAIS Code: 198

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,195.028	220.832	247.928	414.382	-	414.382	485.115	530.855	538.417	549.419	797.295	4,979.271
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,195.028	220.832	247.928	414.382	-	414.382	485.115	530.855	538.417	549.419	797.295	4,979.271
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,195.028	220.832	247.928	414.382	-	414.382	485.115	530.855	538.417	549.419	797.295	4,979.271

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-35 Joint Strike Fighter (JSF) Program will develop and deploy a family of highly common, affordable, next generation, stealthy, multi-role strike fighters that meet the needs of multiple services and countries. The United States Air Force F-35A Conventional Take Off and Landing (CTOL) line item funds modifications and retrofits to the F-35A aircraft and integrated air systems. The overall effort provides correction of deficiencies, near and long-term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are accomplished by field and depot retrofit.

In order to meet emerging deficiencies and capability upgrades, the airframe and integrated air systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate modifications to sustain and improve F-35A system operations. Concurrency changes are implemented to coincide with resources and aircraft availability.

Block upgrades provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the F-35A platform. This modification program will bring early production aircraft and integrated systems to a common fleet configuration as fielded capabilities evolve over the course of the F-35 program.

The modification funding requested in FY 2023 enables several distinct efforts pertaining to the USAF F-35A aircraft to include post aircraft delivery concurrency retrofits, to correct deficiencies, the Block 4 upgrade of hardware and software to an eventual Lot 18 production configuration, and Structural Life Limited Group 2 (SLLP2) upgrades.

FY 2023 increases by \$166.5M for the kit procurement of Block 4 material and kit procurement and installs to support correction of deficiencies, Structural Life Limited Program Group 2 parts (SLLP2), propulsion, reliability and maintainability modifications.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FY 2022 was the first year of procurement of Lot 15 hardware to include Technical Refresh 3 (TR-3) with deliveries planned for 2024. Meanwhile, technical issues in development delayed the final hardware necessary for Block 4 capability until Lot 18. FY 2023 is the second year of procuring TR-3 and Block 4 Lot 15 capabilities. In addition, FY 2023 will be the first year of procurement for Block 4 Lot 17 hardware capabilities based on a 36 month lead time. Initial kit procurements for Lot 18 hardware will be available in FY 2024.

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
F03500 / F-35 Modifications

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207142F **Other Related Program Elements:** 0604800F, 0604840F

Line Item MDAP/MAIS Code: 198

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	1 / Block 3i LRIP 2-5 Upgrade (Capability Improvement)		B		- / 216.806	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	2 / Block 3F LRIP 2-5 Upgrade (Capability Improvement)		B		- / 9.591	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	3 / Block 3F LRIP 6-8 Upgrade (Capability Improvement)		B		- / 2.856	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	4 / Concurrency (Other)		B		- / 819.767	- / 78.563	- / 8.114	- / 1.000	- / 0.000	- / 1.000
P-3a	5 / Correction of Deficiencies (Other)		B		- / 119.277	- / 107.207	- / 101.026	- / 123.383	- / 0.000	- / 123.383
P-3a	6 / Block 4 Modifications (Capability Improvement)		B		- / 26.731	- / 35.062	- / 130.488	- / 273.899	- / 0.000	- / 273.899
P-3a	7 / Propulsion (Other)		B		- / -	- / 0.000	- / 6.200	- / 11.000	- / 0.000	- / 11.000
P-3a	8 / Reliability and Maintainability (Reliability & Maintainability)		B		- / -	- / 0.000	- / 2.100	- / 5.100	- / 0.000	- / 5.100
P-40	Total Gross/Weapon System Cost				- / 1,195.028	- / 220.832	- / 247.928	- / 414.382	- / -	- / 414.382

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	1 / Block 3i LRIP 2-5 Upgrade (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 216.806
P-3a	2 / Block 3F LRIP 2-5 Upgrade (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 9.591
P-3a	3 / Block 3F LRIP 6-8 Upgrade (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 2.856
P-3a	4 / Concurrency (Other)		B		- / 16.950	- / 13.630	- / 13.050	- / 0.000	- / -	- / 951.074
P-3a	5 / Correction of Deficiencies (Other)		B		- / 136.311	- / 151.150	- / 155.720	- / 160.381	- / 172.715	- / 1,227.170
P-3a	6 / Block 4 Modifications (Capability Improvement)		B		- / 311.354	- / 349.575	- / 352.147	- / 383.780	- / 624.580	- / 2,487.616
P-3a	7 / Propulsion (Other)		B		- / 12.000	- / 12.000	- / 12.000	- / 3.400	- / 0.000	- / 56.600
P-3a	8 / Reliability and Maintainability (Reliability & Maintainability)		B		- / 8.500	- / 4.500	- / 5.500	- / 1.858	- / 0.000	- / 27.558
P-40	Total Gross/Weapon System Cost				- / 485.115	- / 530.855	- / 538.417	- / 549.419	- / 797.295	- / 4,979.271

*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:

Basis for FY2023 budget request: F-35A Total Active Inventory is 338 aircraft based on production lots 1-14. FY 2023 funding increases across the FYDP for kits to support Structural Life Limited Parts Group 2 (SLLP2) continuation and modification efforts for Block 4 capabilities, correction of deficiencies, propulsion, reliability and maintainability modifications in support of global F-35A operations.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 1 / Block 3i LRIP 2-5 Upgrade

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	216.806	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	216.806
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	216.806	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	216.806
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	216.806	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	216.806

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The block upgrade program retrofits United States Air Force F-35A aircraft and integrated systems procured under the LRIP contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

These modifications focus on upgrading Blocks 1B, 2A, and 2B aircraft from LRIPs 2-5 to a Block 3i configuration. Block 3i is a stepping stone to the Block 3F configuration. It includes the procurement of hardware for the current Block 3i configuration. The parts include new radar modules, new Integrated Core Processor (ICP) modules and rack, and new Electronic Warfare (EW) modules. The Gen III Helmet will also be introduced as part of the Block 3i upgrade. This effort includes tooling and test equipment for Military Service Depots to support the execution of the Block Upgrade program.

Milestone/Development Status

Not Applicable - No funding requested in FY23

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 1 / Block 3i LRIP 2-5 Upgrade			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-35A				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Block 3i													
B Kits													
Recurring													
Block 3i:EQUIPMENT Group B (Active)	46 / 158.409	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 158.409	
<i>Subtotal: Recurring</i>	- / 158.409	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 158.409	
<i>Subtotal: Block 3i</i>	- / 158.409	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 158.409	
<i>Subtotal: Procurement, All Modification Items</i>	- / 158.409	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 158.409	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	
SIM/TRAINER	24 / 12.984	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 12.984	
Mod of Spares	- / 130.027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 130.027	
<i>Subtotal: Support</i>	24 / 43.011	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 43.011	
Installation													
<i>Modification Item 1 of 1:</i> Block 3i	46 / 15.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 15.386	
<i>Subtotal: Installation</i>	46 / 15.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 15.386	
Total													
Total Cost (Procurement + Support + Installation)	216.806	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	216.806	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 1 / Block 3i LRIP 2-5 Upgrade
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Block 3i

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 27

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

Installation Information

Method of Implementation: Contract Field Team

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 / 15.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 15.386
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	46 / 15.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 15.386

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						
In	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	46
Out	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	46

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 2 / Block 3F LRIP 2-5 Upgrade

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.591	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	9.591
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.591	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	9.591
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.591	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	9.591

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The block upgrade program retrofits United States Air Force F-35A aircraft and integrated systems procured under the LRIP contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

This effort (MN-F3514) focuses on the Block 3F configuration upgrade effort for 46 LRIP 2-5 aircraft and integrated systems. All of the LRIP 2-5 F-35A aircraft receiving the Block 3F software under this modification will have already received the Block 3i hardware under MNF3513. This effort purchases all necessary software and installation labor to ensure LRIP 2-5 F-35A aircraft are upgraded to a Block 3F baseline for full warfighting capability.

Milestone/Development Status

The Block 3F modifications and retrofits program completed its final aircraft induction in 1Q FY 22. Modifications of the final aircraft delayed one year due to repairs necessary after AF-40 incident.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 2 / Block 3F LRIP 2-5 Upgrade			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-35A				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Block 3F													
B Kits													
Recurring													
Block 3F:EQUIPMENT Group B (Active)	46 / 9.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 9.587	
<i>Subtotal: Recurring</i>	- / 9.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.587	
<i>Subtotal: Block 3F</i>	- / 9.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.587	
<i>Subtotal: Procurement, All Modification Items</i>	- / 9.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.587	
Support (All Modification Items)													
SIM/TRAINER	4 / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.004	
<i>Subtotal: Support</i>	4 / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.004	
Installation													
<i>Modification Item 1 of 1:</i> Block 3F	46 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 0.000	
<i>Subtotal: Installation</i>	46 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 0.000	
Total													
Total Cost (Procurement + Support + Installation)	9.591	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	9.591	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 2 / Block 3F LRIP 2-5 Upgrade
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Block 3F

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 3

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 Field Team

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 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 0.000
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	46 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 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	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	46
Out	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	46

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 3 / Block 3F LRIP 6-8 Upgrade

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2.856	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	2.856
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2.856	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	2.856
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2.856	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	2.856

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The block upgrade program retrofits United States Air Force F-35A aircraft and integrated systems procured under the LRIP contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

These modifications focus on the Block 3F configuration upgrade effort for 56 LRIP 6-8 F-35A aircraft and integrated systems. All of the LRIP 6-8 F-35A aircraft receiving the Block 3F software under this modification will have already received the Block 3i hardware under MN-F3513. This effort purchases all necessary software and installation labor to ensure LRIP 6-8 F-35A aircraft are upgraded to a Block 3F baseline for full warfighting capability.

Milestone/Development Status

The Block 3F modifications and retrofits program completed its final aircraft induction in 1Q FY 22. Modifications of the final aircraft delayed one year due to repairs necessary after AF-40 incident.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 3 / Block 3F LRIP 6-8 Upgrade			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-35A				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Block 3F (2)													
B Kits													
Recurring													
Block 3F:EQUIPMENT Group B (Active)	56 / 2.856	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 2.856	
<i>Subtotal: Recurring</i>	- / 2.856	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.856	
<i>Subtotal: Block 3F (2)</i>	- / 2.856	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.856	
<i>Subtotal: Procurement, All Modification Items</i>	- / 2.856	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.856	
Support (All Modification Items)													
SUPPORT-EQUIP	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	
Installation													
<i>Modification Item 1 of 1:</i> Block 3F (2)	56 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 0.000	
<i>Subtotal: Installation</i>	56 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 0.000	
Total													
Total Cost (Procurement + Support + Installation)	2.856	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	2.856	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 3 / Block 3F LRIP 6-8 Upgrade
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Block 3F (2)

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth
Administrative Leadtime (in Months): 0	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 Field Team

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	56 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 0.000
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	56 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 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	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	56
Out	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	56

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 4 / Concurrency

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	819.767	78.563	8.114	1.000	0.000	1.000	16.950	13.630	13.050	0.000	-	951.074
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	819.767	78.563	8.114	1.000	0.000	1.000	16.950	13.630	13.050	0.000	-	951.074
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	819.767	78.563	8.114	1.000	0.000	1.000	16.950	13.630	13.050	0.000	-	951.074

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This effort funded retrofits due to concurrency changes to correct deficiencies tied to the Joint Contract Specification and discovered after formal acceptance (DD-250) of the last aircraft in a given production lot. This included modifications required to extend aircraft service life limited by low-life parts and relieved capability limitations driven by concurrency of production with development.

The concurrency funding line procured concurrency modifications approved at the Joint Configuration Control Board (JCCB) and prioritized within the Modifications Requirements Planning Document (MRPD). The MRPD is vetted and approved by the Services and Partners every six months to ensure that the list accurately reflects existing requirements as well as emerging issues. Per-kit costs vary for each modification being implemented, and in some cases, also varied by aircraft from different LRIP lots to implement an individual modification.

FY 2021 was the transition from Concurrency to Correction of Deficiencies with the exception of Digital Tuner Insertion Program (DTIP) modification. The DTIP program modifies 148 aircraft consisting of Lots 5-10 to a Lot 11 configuration. Currently Lot 5-10 aircraft are equipped with Digital Radio Frequency Memory, which is not compatible with the Technical Refresh 3 (TR-3) upgrade program as part of Block 4. Lot 11 DTIP is required to transition aircraft to TR-3 and Lot 15 configuration and directly enables the training fleet to be standardized with the combat coded aircraft fleet.

Milestone/Development Status

For the F-35 program, the emergence of new concurrency issues is expected to phase out with the completion of SDD. FY 2021 is the transition point from Concurrency to Correction of Deficiencies.

FY 2020 started the Non-Recurring engineering for Digital Tuner Insertion Program with material procurement in 3rd Quarter FY 2020.

The remaining funds in concurrency are for installation and installation support for DTIP in FY 2023 and FY 2024. All other activity has ceased under concurrency.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F03500 / F-35 Modifications				Modification Number / Title: 4 / Concurrency					
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-35A				Modification Type: Other				Related RDT&E PEs: 0604800F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 2: Concurrency</i>													
A Kits													
Recurring													
Concurrency:INSTALL KITS Group A (Active)													
	- / 575.660	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / 575.660	
<i>Subtotal: Recurring</i>													
	- / 575.660	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / 575.660	
<i>Subtotal: Concurrency</i>													
	- / 575.660	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / 575.660	
<i>Modification Item 2 of 2: Digital Tuner Insertion Program (DTIP)</i>													
A Kits													
Recurring													
Digital Tuner Insertion Program (DTIP):INSTALL KITS Group A (Active)													
	88 / 156.000	54 / 75.800	5 / 7.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	147 / 238.854	
<i>Subtotal: Recurring</i>													
	- / 156.000	- / 75.800	- / 7.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 238.854	
<i>Subtotal: Digital Tuner Insertion Program (DTIP)</i>													
	- / 156.000	- / 75.800	- / 7.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 238.854	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / 731.660	- / 75.800	- / 7.054	- / 0.000	- / -	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / 814.514	
Support (All Modification Items)													
ICS-Labor													
	- / 167.230	- / 12.763	- / 11.060	- / 11.000	- / -	- / 11.000	- / 11.000	- / -	- / -	- / -	- / -	- / 73.053	
OTHER GOVT													
	- / 120.877	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.877	
<i>Subtotal: Support</i>													
	- / 88.107	- / 2.763	- / 11.060	- / 11.000	- / -	- / 11.000	- / 11.000	- / -	- / -	- / -	- / -	- / 93.930	
Installation													
<i>Modification Item 2 of 2: Digital Tuner Insertion Program (DTIP)</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	55 / 15.950	47 / 13.630	45 / 13.050	- / -	- / -	147 / 42.630	
<i>Subtotal: Installation</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	55 / 15.950	47 / 13.630	45 / 13.050	- / -	- / -	147 / 42.630	
Total													
Total Cost (Procurement + Support + Installation)													
	819.767	78.563	8.114	1.000	0.000	1.000	16.950	13.630	13.050	0.000	-	951.074	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 4 / Concurrency	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 2: Concurrency							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
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): Org/Intermediate					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 4 / Concurrency

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 2 of 2: Digital Tuner Insertion Program (DTIP)

Manufacturer Information

Manufacturer Name: Lockheed Martin Manufacturer Location: Fort Worth

Administrative Leadtime (in Months): 7 Production Leadtime (in Months): 12

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

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	- / -	- / -	- / -	- / -	- / -	- / -	55 / 15.950	33 / 9.570	- / -	- / -	- / -	88 / 25.520
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 4.060	40 / 11.600	- / -	- / -	54 / 15.660
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.450	- / -	- / -	5 / 1.450
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	55 / 15.950	47 / 13.630	45 / 13.050	- / -	- / -	147 / 42.630

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	0	-	-	-	-	-	-	-	-	-	-	-	-	14	14	14	13	12	12	12	11	12	11	11	11	-	-	-	-	0	147
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	14	14	14	13	12	12	12	11	12	11	11	11	-	-	-	0	147

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F03500 / F-35 Modifications						Modification Number / Title: 5 / Correction of Deficiencies		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	119.277	107.207	101.026	123.383	0.000	123.383	136.311	151.150	155.720	160.381	172.715	1,227.170
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	119.277	107.207	101.026	123.383	0.000	123.383	136.311	151.150	155.720	160.381	172.715	1,227.170
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	119.277	107.207	101.026	123.383	0.000	123.383	136.311	151.150	155.720	160.381	172.715	1,227.170
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

F-35 CTOL Correction of Deficiencies provides near and long term improvements to fielded F-35 jets and focuses on correcting documented deficiencies related to safety, life limits, and aircraft systems. Funds are required to manage, prepare, process and incorporate Engineering Change Proposals (ECP) to sustain and improve F-35A system operations. Artisans at the organic depot and contractor field teams perform the installation of these modifications and selected component changes into the Air System. In order to meet emerging deficiencies, the airframe and integrated systems require modifications to resolve the identified deficiencies.

The major thrust for this effort is structural life limited parts 2 (SLLP) deficiencies. The SLLP2 program focuses on resolving identified life limits up to 4,000 flight hours. Currently, 22 ECPs make up the SLLP2 program scope, requiring a retrofit solution to remove the life limit constraint. The program is still establishing the full scope of modifications for both SLLP2 and SLLP3. Teardown of full-scale durability tests assists completed in July 2019 with analysis continuing through Q2 of calendar year 2020. The program expects to identify additional Engineering Change Proposals during analysis and through continued fleet operations that will require additional non-recurring engineering and tooling.

Prior to the transition to the Correction of Deficiencies OSIP in FY 2020, previous years SLLP2 ECP Non-Recurring Engineering and material procurement completed under the USAF concurrency budget line. Sixteen of the twenty-two engineering change proposals have completed engineering and initial material procurement. Material procurement for SLLP2 will continue throughout the Future Years Defense Program (FYDP).

SLLP2 inductions will continue in Fiscal Year 2023 with 65 USAF F-35A inductions following 67 in FY 2022 and will continue through FYDP. While aircraft inductions decrease slightly, total modification installation hours are scheduled to increase by 2,400 hours. The retrofit ECP effectively of SLLP modification deficiencies vary, ranging from Lot 1 through aircraft still in production that will undergo installations. The F-35A SLLP2 modification program currently requires over 5,000 modification events. Due primarily to the number of aircraft, the SLLP2 program for F-35A is not expected to finish until 2031.

Additionally, this effort covers the SLLP2 follow-on program known as SLLP3. SLLP3 is the follow on effort to resolve life limits from 4,000 to 8,000 hours, enabling the aircraft to meet full life of 8,000 flight hours. The program started Non-Recurring Engineering for SLLP3 in FY 2022. The program will begin material buys in FY 2025 and installations in FY 2027. FY 2023 will focus on developing the engineering solutions for the highest priority SLLP3 ECPs. The program will seek opportunities to install SLLP3 modifications during SLLP2 inductions. Efficiencies can be gained in panel removal (and installation), low observable material restoration, and other tasks that must be completed for every aircraft induction. However, the non-recurring engineering and material purchases must be completed first.

Beyond SLLP 2 and 3, there are currently over 200+ identified deficiency modifications throughout the CTOL fleet. Funds from this OSIP are required to complete non-recurring engineering, material procurement, installation, and associated support costs across two US organic Depots and contractor field team sites. This includes modifications management, depot site support, and depot over and above activities.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 5 / Correction of Deficiencies
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:
<p>- FY 2023 modifications installations consist of SLLP2 ECPs including ECP-0335: F-35A FS503 Frame ECP-0428: F-35A FS402 Right Hand Side (RHS) Frame ECP-0557: F-35A Center Fuselage F2 Floor ECP-0525: F-35A FS402 Upper Frame ECP-0628: F-35A FS450 Bulkhead ECP-0698: F-35A FS496 Bulkhead Trunnion ECP-0630: F-35A Fuel Floor FS496-556 ECP-0754: F-35A FS518 Bulkhead ECP-0847: F-35A Vertical Tail Forward Shear Fitting Bushing ECP-1130: F-35A Upper Inlet Duct Longeron ECP-1220: F-35A FS402 Upper Outboard Frame ECP-1246: F-35A LHS Metallic Forward Chine Longeron</p> <p>- FY 2023 modifications installations consist of COD ECPs including ECP-0061: Engine Interchangeability Bleed Air System ECP-0385: Weapons Bay Door Drive Flex Cable Redesign ECP-0672: CTOL fuel dump performance improvement ECP-0229: Horizontal Tail Elevated Heat Temp Coatings ECP-0516: 270V Battery Installation ECP-0729: Chem Film in Hoist Region ECP-1038: CTOL Engine Feed Tube ECP-1175: F-35A/C Dual Flex Coupling</p> <p>Additional ECPs may be added to the installation schedule as they are awarded and become supportable with material and tooling. The program seeks to maintain a relatively predictable forecast with Ogden Air Logistics Complex. A predictable forecast allows the depots to hire the appropriate number of artisans and charge the program a rate for a fully utilized workforce.</p> <p>Propulsion and R&M were included in F-35A Correction of Deficiencies through FY2022, but will be broken out into their own categories starting in FY 2023.</p> <p>Milestone/Development Status</p> <p>The program developed an initial list of SLLP3 ECPs in Dec 2021. The program currently expects there to be 12 ECPs for SLLP3 for F-35A, but the final number is subject to change as analysis continues. Material Kit cost differences from year to year for SLLP2/3 efforts reflect cost share ratio between the government and contractor.</p> <p>Propulsion and Reliability and Maintainability modification transitioned out of Correction of Deficiencies and into their own modification lines in the FY23 budget submission.</p>		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 5 / Correction of Deficiencies		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-35A				Modification Type: Other				Related RDT&E PEs: 0604800F				
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 26: 1) Correction of Deficiencies (roll-up & install) [B-kits]												
A Kits												
Recurring												
1) Correction of Deficiencies (roll-up & install) [B-kits]:INSTALL KITS Group A (Active)	- / 41.188	45 / 12.561	45 / 13.655	56 / 13.957	- / -	56 / 13.957	43 / 13.419	35 / 11.985	35 / 13.255	101 / 17.628	- / -	360 / 137.648
Subtotal: Recurring	- / 41.188	- / 12.561	- / 13.655	- / 13.957	- / -	- / 13.957	- / 13.419	- / 11.985	- / 13.255	- / 17.628	- / -	- / 137.648
Subtotal: 1) Correction of Deficiencies (roll-up & install) [B-kits]	- / 41.188	- / 12.561	- / 13.655	- / 13.957	- / -	- / 13.957	- / 13.419	- / 11.985	- / 13.255	- / 17.628	- / -	- / 137.648
Modification Item 2 of 26: 1.1) CoD ECP-1383C1 VEHICLE MISSION COMPUTER UPGRADE												
B Kits												
Recurring												
1.1) CoD ECP-1383C1 VEHICLE MISSION COMPUTER UPGRADE:EQUIPMENT Group B (Active)	45 / 0.423	45 / 0.439	45 / 0.435	56 / 0.543	- / -	56 / 0.543	43 / 0.425	35 / 0.267	35 / 0.267	101 / 0.948	- / -	405 / 3.747
Subtotal: Recurring	- / 0.423	- / 0.439	- / 0.435	- / 0.543	- / -	- / 0.543	- / 0.425	- / 0.267	- / 0.267	- / 0.948	- / -	- / 3.747
Subtotal: 1.1) CoD ECP-1383C1 VEHICLE MISSION COMPUTER UPGRADE	- / 0.423	- / 0.439	- / 0.435	- / 0.543	- / -	- / 0.543	- / 0.425	- / 0.267	- / 0.267	- / 0.948	- / -	- / 3.747
Modification Item 3 of 26: 1.2) CoD ECP-0701 FULLY QUALIFIED F-35A NOSE LANDING GEAR RETROFIT												
B Kits												
Recurring												
1.2) CoD ECP-0701 FULLY QUALIFIED F-35A NOSE LANDING GEAR RETROFIT:EQUIPMENT Group B (Active)	127 / 3.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	127 / 3.717
Subtotal: Recurring	- / 3.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.717
Subtotal: 1.2) CoD ECP-0701 FULLY QUALIFIED F-35A NOSE LANDING GEAR RETROFIT	- / 3.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.717
Modification Item 4 of 26: 1.3) CoD ECP-1008 MOORING RING RETROFIT												
B Kits												
Recurring												
1.3) CoD ECP-1008 MOORING RING RETROFIT:EQUIPMENT Group B (Active)	359 / 9.552	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	359 / 9.552

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 5 / Correction of Deficiencies		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-35A				Modification Type: Other				Related RDT&E PEs: 0604800F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Recurring</i>	- / 9.552	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.552
<i>Subtotal: 1.3) CoD ECP-1008 MOORING RING RETROFIT</i>	- / 9.552	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.552
Modification Item 5 of 26: 1.4) CoD ECP-1134 NOSE WHEEL STEERING MOTOR CRACKS												
B Kits												
Recurring												
1.4) CoD ECP-1134 NOSE WHEEL STEERING MOTOR CRACKS: EQUIPMENT Group B (Active)	281 / 7.537	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	281 / 7.537
<i>Subtotal: Recurring</i>	- / 7.537	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.537
<i>Subtotal: 1.4) CoD ECP-1134 NOSE WHEEL STEERING MOTOR CRACKS</i>	- / 7.537	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.537
Modification Item 6 of 26: 4) Structural Life Limited Parts (roll-up & install)												
A Kits												
Recurring												
4) Structural Life Limited Parts (roll-up & install): INSTALL KITS Group A (Active)	630 / 0.002	510 / 0.001	331 / 0.001	605 / 0.001	- / -	605 / 0.001	1,485 / 0.001	1,414 / 0.001	1,380 / 0.001	1,282 / 0.001	1,866 / 0.002	9,503 / 0.011
<i>Subtotal: Recurring</i>	- / 0.002	- / 0.001	- / 0.001	- / 0.001	- / -	- / 0.001	- / 0.001	- / 0.001	- / 0.001	- / 0.001	- / 0.002	- / 0.011
<i>Subtotal: 4) Structural Life Limited Parts (roll-up & install)</i>	- / 0.002	- / 0.001	- / 0.001	- / 0.001	- / -	- / 0.001	- / 0.001	- / 0.001	- / 0.001	- / 0.001	- / 0.002	- / 0.011
Modification Item 7 of 26: COMMON: Correction of Deficiencies: Equipment Group B												
B Kits												
Recurring												
COMMON: Correction of Deficiencies: Equipment Group B: EQUIPMENT Group B (Active)	- / 1.653	- / 0.245	- / 0.490	- / 0.980	- / -	- / 0.980	- / 2.450	- / 2.940	- / -	- / -	- / -	- / 8.758
<i>Subtotal: Recurring</i>	- / 1.653	- / 0.245	- / 0.490	- / 0.980	- / -	- / 0.980	- / 2.450	- / 2.940	- / -	- / -	- / -	- / 8.758
<i>Subtotal: COMMON: Correction of Deficiencies: Equipment Group B</i>	- / 1.653	- / 0.245	- / 0.490	- / 0.980	- / -	- / 0.980	- / 2.450	- / 2.940	- / -	- / -	- / -	- / 8.758
Modification Item 8 of 26: SLLP ECP-0335/0335R2 FS503 FRAME												
A Kits												
Recurring												

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 5 / Correction of Deficiencies		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-35A				Modification Type: Other				Related RDT&E PEs: 0604800F				
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)
SLLP ECP-0335/0335R2 FS503 FRAME:INSTALL KITS Group A (Active)	100 / 1.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 1.388
<i>Subtotal: Recurring</i>	- / 1.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.388
<i>Subtotal: SLLP ECP-0335/0335R2 FS503 FRAME</i>	- / 1.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.388
Modification Item 9 of 26: SLLP ECP-0428 FS402 RHS FRAME												
A Kits												
Recurring												
SLLP ECP-0428 FS402 RHS FRAME:INSTALL KITS Group A (Active)	105 / 0.042	25 / 0.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	130 / 0.052
<i>Subtotal: Recurring</i>	- / 0.042	- / 0.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.052
<i>Subtotal: SLLP ECP-0428 FS402 RHS FRAME</i>	- / 0.042	- / 0.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.052
Modification Item 10 of 26: SLLP ECP-0525/0525R1/R2 FS402 UPPER FRAME												
A Kits												
Recurring												
SLLP ECP-0525/0525R1/R2 FS402 UPPER FRAME:INSTALL KITS Group A (Active)	147 / 0.317	3 / 0.008	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 0.325
<i>Subtotal: Recurring</i>	- / 0.317	- / 0.008	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.325
<i>Subtotal: SLLP ECP-0525/0525R1/R2 FS402 UPPER FRAME</i>	- / 0.317	- / 0.008	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.325
Modification Item 11 of 26: SLLP ECP-0557 CENTER FUSELAGE F2 FLOOR												
A Kits												
Recurring												
SLLP ECP-0557 CENTER FUSELAGE F2 FLOOR:INSTALL KITS Group A (Active)	40 / 0.720	39 / 0.702	39 / 0.702	39 / 0.702	- / -	39 / 0.702	- / -	- / -	- / -	- / -	- / -	157 / 2.826
<i>Subtotal: Recurring</i>	- / 0.720	- / 0.702	- / 0.702	- / 0.702	- / -	- / 0.702	- / -	- / -	- / -	- / -	- / -	- / 2.826
<i>Subtotal: SLLP ECP-0557 CENTER FUSELAGE F2 FLOOR</i>	- / 0.720	- / 0.702	- / 0.702	- / 0.702	- / -	- / 0.702	- / -	- / -	- / -	- / -	- / -	- / 2.826
Modification Item 12 of 26: SLLP ECP-0628 BULKHEAD FS450, 472, 518 & 556												
A Kits												
Recurring												

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 5 / Correction of Deficiencies		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-35A				Modification Type: Other				Related RDT&E PEs: 0604800F				
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)
SLLP ECP-0628 BULKHEAD FS450, 472, 518 & 556:INSTALL KITS Group A (Active)	24 / 2.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.185
<i>Subtotal: Recurring</i>	- / 2.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.185
<i>Subtotal: SLLP ECP-0628 BULKHEAD FS450, 472, 518 & 556</i>	- / 2.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.185
Modification Item 13 of 26: SLLP ECP-0630 FUEL FLOOR FS496-556												
A Kits												
Recurring												
SLLP ECP-0630 FUEL FLOOR FS496-556:INSTALL KITS Group A (Active)	34 / 0.490	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.490
<i>Subtotal: Recurring</i>	- / 0.490	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.490
<i>Subtotal: SLLP ECP-0630 FUEL FLOOR FS496-556</i>	- / 0.490	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.490
Modification Item 14 of 26: SLLP ECP-0698 FS496 BULKHEAD TRUNNION												
A Kits												
Recurring												
SLLP ECP-0698 FS496 BULKHEAD TRUNNION:INSTALL KITS Group A (Active)	15 / 0.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.002
<i>Subtotal: Recurring</i>	- / 0.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.002
<i>Subtotal: SLLP ECP-0698 FS496 BULKHEAD TRUNNION</i>	- / 0.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.002
Modification Item 15 of 26: SLLP ECP-0754/0754R1 FS518 BULKHEAD (LRIP 1-12)												
A Kits												
Recurring												
SLLP ECP-0754/0754R1 FS518 BULKHEAD (LRIP 1-12):INSTALL KITS Group A (Active)	157 / 0.309	43 / 0.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 0.332
<i>Subtotal: Recurring</i>	- / 0.309	- / 0.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.332
<i>Subtotal: SLLP ECP-0754/0754R1 FS518 BULKHEAD (LRIP 1-12)</i>	- / 0.309	- / 0.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.332
Modification Item 16 of 26: SLLP ECP-0847 VT FWD SHEAR FITTING BUSH												
A Kits												
Recurring												

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 5 / Correction of Deficiencies		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-35A				Modification Type: Other				Related RDT&E PEs: 0604800F				
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)
SLLP ECP-0847 VT FWD SHEAR FITTING BUSH:INSTALL KITS Group A (Active)	178 / 0.495	87 / 0.242	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	265 / 0.737
<i>Subtotal: Recurring</i>	- / 0.495	- / 0.242	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.737
<i>Subtotal: SLLP ECP-0847 VT FWD SHEAR FITTING BUSH</i>	- / 0.495	- / 0.242	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.737
Modification Item 17 of 26: SLLP ECP-1065 F1 FEED TANK UPPER COVERS LIMITED LIFE												
A Kits												
Recurring												
SLLP ECP-1065 F1 FEED TANK UPPER COVERS LIMITED LIFE:INSTALL KITS Group A (Active)	- / -	85 / 1.530	83 / 1.494	83 / 1.494	- / -	83 / 1.494	83 / 1.494	- / -	- / -	- / -	- / -	334 / 6.012
<i>Subtotal: Recurring</i>	- / -	- / 1.530	- / 1.494	- / 1.494	- / -	- / 1.494	- / 1.494	- / -	- / -	- / -	- / -	- / 6.012
<i>Subtotal: SLLP ECP-1065 F1 FEED TANK UPPER COVERS LIMITED LIFE</i>	- / -	- / 1.530	- / 1.494	- / 1.494	- / -	- / 1.494	- / 1.494	- / -	- / -	- / -	- / -	- / 6.012
Modification Item 18 of 26: SLLP ECP-1130 UPPER INLET DUCT LONGERON (Lot 1-12)												
A Kits												
Recurring												
SLLP ECP-1130 UPPER INLET DUCT LONGERON (Lot 1-12):INSTALL KITS Group A (Active)	99 / 0.644	109 / 0.709	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	208 / 1.353
<i>Subtotal: Recurring</i>	- / 0.644	- / 0.709	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.353
<i>Subtotal: SLLP ECP-1130 UPPER INLET DUCT LONGERON (Lot 1-12)</i>	- / 0.644	- / 0.709	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.353
Modification Item 19 of 26: SLLP ECP-1220 FS402 UPPER OUTBOARD FRAMES												
A Kits												
Recurring												
SLLP ECP-1220 FS402 UPPER OUTBOARD FRAMES:INSTALL KITS Group A (Active)	57 / 0.513	80 / 0.720	80 / 0.837	80 / 1.440	- / -	80 / 1.440	80 / 1.440	- / -	- / -	- / -	- / -	377 / 4.950
<i>Subtotal: Recurring</i>	- / 0.513	- / 0.720	- / 0.837	- / 1.440	- / -	- / 1.440	- / 1.440	- / -	- / -	- / -	- / -	- / 4.950
<i>Subtotal: SLLP ECP-1220 FS402 UPPER OUTBOARD FRAMES</i>	- / 0.513	- / 0.720	- / 0.837	- / 1.440	- / -	- / 1.440	- / 1.440	- / -	- / -	- / -	- / -	- / 4.950
Modification Item 20 of 26: SLLP ECP-1246 LHS METALLIC FWD CHINE LONGERON												
A Kits												

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F03500 / F-35 Modifications						Modification Number / Title: 5 / Correction of Deficiencies		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-35A				Modification Type: Other				Related RDT&E PEs: 0604800F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Recurring												
SLLP ECP-1246 LHS METALLIC FWD CHINE LONGERON:INSTALL KITS Group A (Active)	97 / 0.778	39 / 0.277	2 / 0.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 1.072
<i>Subtotal: Recurring</i>	- / 0.778	- / 0.277	- / 0.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.072
<i>Subtotal: SLLP ECP-1246 LHS METALLIC FWD CHINE LONGERON</i>	- / 0.778	- / 0.277	- / 0.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.072
Modification Item 21 of 26: SLLP ECP-1406 GUN BLAST SKIN												
A Kits												
Recurring												
SLLP ECP-1406 GUN BLAST SKIN:INSTALL KITS Group A (Active)	- / -	- / -	35 / 0.875	35 / 0.875	- / -	35 / 0.875	34 / 0.850	34 / 0.850	- / -	- / -	- / -	138 / 3.450
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.875	- / 0.875	- / -	- / 0.875	- / 0.850	- / 0.850	- / -	- / -	- / -	- / 3.450
<i>Subtotal: SLLP ECP-1406 GUN BLAST SKIN</i>	- / -	- / -	- / 0.875	- / 0.875	- / -	- / 0.875	- / 0.850	- / 0.850	- / -	- / -	- / -	- / 3.450
Modification Item 22 of 26: SLLP ECP-1433 FUEL FLOOR FS472-496 (LH)												
A Kits												
Recurring												
SLLP ECP-1433 FUEL FLOOR FS472-496 (LH):INSTALL KITS Group A (Active)	- / -	- / -	- / -	92 / 1.116	- / -	92 / 1.116	92 / 1.656	92 / 1.656	92 / 1.656	90 / 1.620	- / -	458 / 7.704
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 1.116	- / -	- / 1.116	- / 1.656	- / 1.656	- / 1.656	- / 1.620	- / -	- / 7.704
<i>Subtotal: SLLP ECP-1433 FUEL FLOOR FS472-496 (LH)</i>	- / -	- / -	- / -	- / 1.116	- / -	- / 1.116	- / 1.656	- / 1.656	- / 1.656	- / 1.620	- / -	- / 7.704
Modification Item 23 of 26: SLLP ECP-1434 FUEL FLOOR FS472-496 (RH)												
A Kits												
Recurring												
SLLP ECP-1434 FUEL FLOOR FS472-496 (RH):INSTALL KITS Group A (Active)	- / -	- / -	- / -	92 / 1.116	- / -	92 / 1.116	92 / 1.656	92 / 1.656	92 / 1.656	90 / 1.620	- / -	458 / 7.704
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 1.116	- / -	- / 1.116	- / 1.656	- / 1.656	- / 1.656	- / 1.620	- / -	- / 7.704
<i>Subtotal: SLLP ECP-1434 FUEL FLOOR FS472-496 (RH)</i>	- / -	- / -	- / -	- / 1.116	- / -	- / 1.116	- / 1.656	- / 1.656	- / 1.656	- / 1.620	- / -	- / 7.704
Modification Item 24 of 26: SLLP ECP-1435 FS450 BULKHEAD												
A Kits												

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F03500 / F-35 Modifications				Modification Number / Title: 5 / Correction of Deficiencies					
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-35A				Modification Type: Other				Related RDT&E PEs: 0604800F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Recurring													
SLLP ECP-1435 FS450 BULKHEAD:INSTALL KITS Group A (Active)	- / -	- / -	- / -	92 / 1.116	- / -	92 / 1.116	92 / 1.656	92 / 1.656	92 / 1.656	90 / 1.620	- / -	458 / 7.704	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 1.116	- / -	- / 1.116	- / 1.656	- / 1.656	- / 1.656	- / 1.620	- / -	- / 7.704	
<i>Subtotal: SLLP ECP-1435 FS450 BULKHEAD</i>	- / -	- / -	- / -	- / 1.116	- / -	- / 1.116	- / 1.656	- / 1.656	- / 1.656	- / 1.620	- / -	- / 7.704	
Modification Item 25 of 26: SLLP ECP-1441 FS402 UPPER FRAME													
A Kits													
Recurring													
SLLP ECP-1441 FS402 UPPER FRAME:INSTALL KITS Group A (Active)	- / -	- / -	92 / 1.656	92 / 1.116	- / -	92 / 1.116	92 / 1.116	92 / 1.656	92 / 1.656	- / -	- / -	460 / 7.200	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 1.656	- / 1.116	- / -	- / 1.116	- / 1.116	- / 1.656	- / 1.656	- / -	- / -	- / 7.200	
<i>Subtotal: SLLP ECP-1441 FS402 UPPER FRAME</i>	- / -	- / -	- / 1.656	- / 1.116	- / -	- / 1.116	- / 1.116	- / 1.656	- / 1.656	- / -	- / -	- / 7.200	
Modification Item 26 of 26: SLLP ECP-XXXX to XXXK FY24+ ECPs													
A Kits													
Recurring													
SLLP ECP-XXXX to XXXK FY24+ ECPs:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	920 / 9.144	1,012 / 22.328	1,012 / 26.365	1,012 / 26.365	1,866 / 58.389	5,822 / 142.591	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.144	- / 22.328	- / 26.365	- / 26.365	- / 58.389	- / 142.591	
<i>Subtotal: SLLP ECP-XXXX to XXXK FY24+ ECPs</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.144	- / 22.328	- / 26.365	- / 26.365	- / 58.389	- / 142.591	
<i>Subtotal: Procurement, All Modification Items</i>	- / 71.955	- / 17.467	- / 20.162	- / 24.456	- / -	- / 24.456	- / 35.307	- / 44.995	- / 46.512	- / 49.802	- / 58.391	- / 369.047	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / 2.010	- / 1.675	- / 3.655	- / -	- / 3.655	- / 2.427	- / 2.329	- / -	- / -	- / -	- / 12.096	
GROUP B: TOTAL NONRECURRING	- / -	- / 4.992	- / 4.564	- / 3.652	- / -	- / 3.652	- / 3.762	- / 3.874	- / 3.991	- / 4.110	- / -	- / 28.945	
ICS-Labor	- / 16.535	- / 32.626	- / 33.483	- / 30.747	- / -	- / 30.747	- / 33.837	- / 34.902	- / 36.003	- / 37.173	- / -	- / 255.306	
OTHER GOVT	- / 11.620	- / 9.000	- / 2.660	- / 2.489	- / -	- / 2.489	- / 2.564	- / 2.641	- / 2.720	- / 2.801	- / -	- / 36.495	
<i>Subtotal: Support</i>	- / 28.155	- / 48.628	- / 42.382	- / 40.543	- / -	- / 40.543	- / 42.590	- / 43.746	- / 42.714	- / 44.084	- / -	- / 332.842	
Installation													
Modification Item 1 of 26: 1) Correction of Deficiencies (roll-up & install) [B-kits]	- / -	- / -	45 / 12.207	45 / 21.107	- / -	45 / 21.107	56 / 18.359	43 / 19.615	35 / 13.634	35 / 13.635	101 / 0.001	360 / 98.558	
Modification Item 6 of 26: 4) Structural Life Limited Parts (roll-up & install)	182 / 19.167	448 / 41.112	355 / 26.275	486 / 37.277	- / -	486 / 37.277	605 / 40.055	1,485 / 42.794	1,414 / 52.860	1,380 / 52.860	3,148 / 114.323	9,503 / 426.723	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F03500 / F-35 Modifications						Modification Number / Title: 5 / Correction of Deficiencies		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-35A				Modification Type: Other				Related RDT&E PEs: 0604800F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Installation</i>	182 / 19.167	448 / 41.112	400 / 38.482	531 / 58.384	- / -	531 / 58.384	661 / 58.414	1,528 / 62.409	1,449 / 66.494	1,415 / 66.495	3,249 / 114.324	9,863 / 525.281
Total												
Total Cost (Procurement + Support + Installation)	119.277	107.207	101.026	123.383	0.000	123.383	136.311	151.150	155.720	160.381	172.715	1,227.170

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 5 / Correction of Deficiencies
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 26: 1) Correction of Deficiencies (roll-up & install) [B-kits]

Manufacturer Information

Manufacturer Name: Lockheed Martin Manufacturer Location: Fort Worth

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	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	10 / 2.821	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.821
FY 2022	- / -	- / -	- / -	8 / 3.893	- / -	8 / 3.893	- / -	- / -	- / -	- / -	- / -	8 / 3.893
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.221	- / -	- / -	- / -	- / -	7 / 2.221
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.372	- / -	- / -	- / -	5 / 2.372
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.541	- / -	- / -	7 / 2.541
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.541	- / -	7 / 2.541
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	10 / 2.821	8 / 3.893	- / -	8 / 3.893	7 / 2.221	5 / 2.372	7 / 2.541	7 / 2.541	- / -	44 / 16.389

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	0	-	-	-	-	2	2	3	3	2	2	2	2	2	2	2	1	2	1	1	1	2	2	2	1	2	2	2	1	0	44
Out	0	-	-	-	-	-	2	2	3	3	2	2	2	2	2	2	2	1	2	1	1	1	2	2	2	1	2	2	2	1	44

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 5 / Correction of Deficiencies
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

Modification Item 1 of 26: 1) Correction of Deficiencies (roll-up & install) [B-kits]

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)
FY 2021	- / -	- / -	35 / 9.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 9.386
FY 2022	- / -	- / -	- / -	37 / 17.214	- / -	37 / 17.214	- / -	- / -	- / -	- / -	- / -	37 / 17.214
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	49 / 16.138	- / -	- / -	- / -	- / -	49 / 16.138
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 17.243	- / -	- / -	- / -	38 / 17.243
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 11.093	- / -	- / -	28 / 11.093
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 11.094	- / -	28 / 11.094
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	101 / 0.001	101 / 0.001
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	35 / 9.386	37 / 17.214	- / -	37 / 17.214	49 / 16.138	38 / 17.243	28 / 11.093	28 / 11.094	101 / 0.001	316 / 82.169

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	0	-	-	-	-	9	9	9	8	9	9	9	10	12	12	12	13	10	10	9	9	7	7	7	7	7	7	7	7	101	316
Out	0	-	-	-	-	-	9	9	9	8	9	9	9	10	12	12	12	13	10	10	9	9	7	7	7	7	7	7	7	108	316

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 2 of 26: 1.1) CoD ECP-1383C1 VEHICLE MISSION COMPUTER UPGRADE							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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 (Organic): Org/Intermediate					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 3 of 26: 1.2) CoD ECP-0701 FULLY QUALIFIED F-35A NOSE LANDING GEAR RETROFIT							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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 (Organic): Org/Intermediate					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 4 of 26: 1.3) CoD ECP-1008 MOORING RING RETROFIT							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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 (Organic): Org/Intermediate					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 5 of 26: 1.4) CoD ECP-1134 NOSE WHEEL STEERING MOTOR CRACKS							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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 (Organic): Org/Intermediate					Installation Quantity: 0		

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 5 / Correction of Deficiencies
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 6 of 26: 4) Structural Life Limited Parts (roll-up & install)

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth
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	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	33 / 2.822	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 2.822
FY 2022	- / -	- / -	- / -	34 / 2.329	- / -	34 / 2.329	- / -	- / -	- / -	- / -	- / -	34 / 2.329
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	34 / 2.399	- / -	- / -	- / -	- / -	34 / 2.399
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 2.563	- / -	- / -	- / -	34 / 2.563
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 2.744	- / -	- / -	34 / 2.744
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 2.744	- / -	34 / 2.744
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	33 / 2.822	34 / 2.329	- / -	34 / 2.329	34 / 2.399	34 / 2.563	34 / 2.744	34 / 2.744	- / -	203 / 15.601

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	0	-	-	-	-	8	8	8	9	9	8	9	8	9	8	9	8	9	8	9	8	9	8	9	8	9	8	9	8	0	203
Out	0	-	-	-	-	-	8	8	8	9	9	8	9	8	9	8	9	8	9	8	9	8	9	8	9	8	9	8	9	8	203

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	182 / 19.167	448 / 41.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	630 / 60.279

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 5 / Correction of Deficiencies
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

Modification Item 6 of 26: 4) Structural Life Limited Parts (roll-up & install)

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)
FY 2021	- / -	- / -	322 / 23.453	155 / 11.984	- / -	155 / 11.984	- / -	- / -	- / -	- / -	- / -	477 / 35.437
FY 2022	- / -	- / -	- / -	297 / 22.964	- / -	297 / 22.964	- / -	- / -	- / -	- / -	- / -	297 / 22.964
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	571 / 37.656	- / -	- / -	- / -	- / -	571 / 37.656
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,451 / 40.231	- / -	- / -	- / -	1,451 / 40.231
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,380 / 50.116	- / -	- / -	1,380 / 50.116
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,346 / 50.116	- / -	1,346 / 50.116
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,282 / 46.557	1,282 / 46.557
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,866 / 67.766	1,866 / 67.766
Total	182 / 19.167	448 / 41.112	322 / 23.453	452 / 34.948	- / -	452 / 34.948	571 / 37.656	1,451 / 40.231	1,380 / 50.116	1,346 / 50.116	3,148 / 114.323	9,300 / 411.122

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	182	112	112	112	112	81	81	80	80	113	113	113	113	142	143	143	143	362	363	363	363	345	345	345	345	337	337	336	336	3,148	9,300
Out	136	46	112	112	112	112	81	81	80	80	113	113	113	113	142	143	143	143	362	363	363	363	345	345	345	345	337	337	336	3,484	9,300

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 7 of 26: COMMON: Correction of Deficiencies: Equipment Group B							
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): Org/Intermediate					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 8 of 26: SLLP ECP-0335/0335R2 FS503 FRAME							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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 (Organic): Org/Intermediate					Installation Quantity: 100		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 9 of 26: SLLP ECP-0428 FS402 RHS FRAME							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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						
Delivery Dates	Dec 2021						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 130		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 10 of 26: SLLP ECP-0525/0525R1/R2 FS402 UPPER FRAME							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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						
Delivery Dates	Dec 2021						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 150		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 11 of 26: SLLP ECP-0557 CENTER FUSELAGE F2 FLOOR							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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				
Delivery Dates	Dec 2021	Dec 2022	Dec 2023				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 157		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 12 of 26: SLLP ECP-0628 BULKHEAD FS450, 472, 518 & 556							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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 (Organic): Org/Intermediate					Installation Quantity: 24		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 13 of 26: SLLP ECP-0630 FUEL FLOOR FS496-556							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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 (Organic): Org/Intermediate					Installation Quantity: 34		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 14 of 26: SLLP ECP-0698 FS496 BULKHEAD TRUNNION							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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 (Organic): Org/Intermediate					Installation Quantity: 15		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 15 of 26: SLLP ECP-0754/0754R1 FS518 BULKHEAD (LRIP 1-12)							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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						
Delivery Dates	Dec 2021						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 200		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 16 of 26: SLLP ECP-0847 VT FWD SHEAR FITTING BUSH							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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						
Delivery Dates	Dec 2021						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 265		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 17 of 26: SLLP ECP-1065 F1 FEED TANK UPPER COVERS LIMITED LIFE							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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			
Delivery Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 334		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 18 of 26: SLLP ECP-1130 UPPER INLET DUCT LONGERON (Lot 1-12)							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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						
Delivery Dates	Dec 2021						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 208		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 19 of 26: SLLP ECP-1220 FS402 UPPER OUTBOARD FRAMES							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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			
Delivery Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 377		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 20 of 26: SLLP ECP-1246 LHS METALLIC FWD CHINE LONGERON							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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					
Delivery Dates	Dec 2021	Dec 2022					
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 138		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 21 of 26: SLLP ECP-1406 GUN BLAST SKIN							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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 2021	Dec 2022	Dec 2023	Dec 2024		
Delivery Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025		
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 138		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 22 of 26: SLLP ECP-1433 FUEL FLOOR FS472-496 (LH)							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth, TX			
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 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026
Delivery Dates			Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 458		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 23 of 26: SLLP ECP-1434 FUEL FLOOR FS472-496 (RH)							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Wroth, TX			
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 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026
Delivery Dates			Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 458		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 24 of 26: SLLP ECP-1435 FS450 BULKHEAD							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth, TX			
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 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026
Delivery Dates			Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 458		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 5 / Correction of Deficiencies	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 25 of 26: SLLP ECP-1441 FS402 UPPER FRAME							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
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 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	
Delivery Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 460		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications		Modification Number / Title: 5 / Correction of Deficiencies		
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:			
Modification Item 26 of 26: SLLP ECP-XXXXA to XXXK FY24+ ECPs							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth, TX			
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 2023	Dec 2024	Dec 2025	Dec 2026
Delivery Dates				Dec 2024	Dec 2025	Dec 2026	Dec 2027
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 5822		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 6 / Block 4 Modifications

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	26.731	35.062	130.488	273.899	0.000	273.899	311.354	349.575	352.147	383.780	624.580	2,487.616
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	26.731	35.062	130.488	273.899	0.000	273.899	311.354	349.575	352.147	383.780	624.580	2,487.616
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	26.731	35.062	130.488	273.899	0.000	273.899	311.354	349.575	352.147	383.780	624.580	2,487.616

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-35 Block 4 Program is established to retrofit advanced capabilities on the F-35As to increase the capability and lethality of the weapon system to meet current and future threats. Funding is required to upgrade Low Rate Initial Production (LRIP) Lots 5-16, totaling 483. Lot 5-10 aircraft are planned to be retrofitted to a Lot 15 hardware configuration. Lot 11-17 aircraft are planned to be retrofitted to a Lot 18 configuration. Quantities of retrofits will increase based on changes to the production profile.

Block 4 incorporation will not follow the traditional Block upgrade approach; instead, modifications performed through a Continuous Capability Development and Delivery Concept that entails upgrades to both hardware and software on fielded aircraft on a yearly base. The current modification incorporation schedule is below and offset by production incorporation by 1-year for Lot 15 and Lot 16 capabilities based on a 2-year kit lead-time and 3 years lead-time for Lot 17 and Lot 18. This effort includes, but not limited to the below capabilities and associated modification install timelines:

FY 2024 (Lot 15) - Technical Refresh 3 (TR3), Next Generation Distributed Aperture System (Next Gen DAS), Cooling Mod, High Efficiency Low Voltage Power Supply, (HE-LVPS), Electronic Warfare Rack 2 IBA, Radio Frequency Converter (RFC), and Fuel Conduit Mod.

- TR3 - integrates new integrated core processor (ICP), panoramic cockpit display, and aircraft memory system to meet Block 4 processing, memory, and throughput requirements.
- Next Gen DAS - replaces current DAS due to sensor reliability while increasing performance to provide larger pixel focal plane array and higher operating temperatures.
- Cooling Upgrade Phase 1 - increases cooling capacity to support electronic warfare growth and addition of Full Motion Video (FMV).
- HE-LVPS - High Efficiency-Low Voltage Power Supplier. Required for EW mods increased power flexibility.
- Rack 2 IBA, RFC- replaces legacy EW racks to accommodate modernized EW modules.
- Fuel Conduit Mod - enable alternate wire routing for Block 4 upgrades for Pre-Lot 15 Aircraft to eliminate the need to route wiring through the dead zone and accommodates future wiring needs.

FY 2025 (Lot 16) - Advanced Communication, Navigation, Identification Processor (ACNIP) and CNI Avionics Interface Controller (CAIC)
 - ACNIP and CAIC - provides increased processing capabilities to support Concurrent Multi-Netting (CMN-4) capabilities

FY 2026 (Lot 17) - Modernized Electronic Warfare Controller (M-EWC), and Modernized Electronic Warfare Processor (M-EWP), EW Group 2, and Cooling Upgrade Phase 2
 - M-EWC/EWP - increases 8-core processors (SDD) to 32-core, providing more than 3 times the processing performance for running advance algorithms and supporting the transition from 12 Receivers (SDD) to 20 Receivers
 - EW Group 2 - adds technology to address the Advancing Threats, to detect and counter the LPI Emitter; includes , Aircraft Interface Module (ACIF), M-Quad Upconverter (M-QUC), M-Quad Tuner (M-QTM), M-Digital Channelized Receiver (DCR), M-DCR and Techniques Receiver (DCRTG), M-Analog-to-Digital Converter (ADC),
 - DCRCP - Domain Controller Radar Control Processor. Enables increased processing, memory, and throughput
 - Cooling Upgrade Phase 2 - increases cooling capacity to support electronic warfare growth and Full Motion Video (FMV)

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 6 / Block 4 Modifications
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:
<p>FY 2027 (Lot 18) - Advanced Multi Channel Transceiver Receiver (AMCTR), Integrated CNI Rack 3A and 3B Backplane, Full Motion Video, Embedded GPS and Inertial Navigation System (EGI), Band 2/3/4/5 Electronic Warfare (EW) Hardware (HW) and EW Group 2 HW</p> <ul style="list-style-type: none"> - AMCTR - provides MIDS Modernization Increment 1 (MMI) Concurrent Multi-Netting (CMN) and Concurrent Contention Receive (CCR) capabilities - Full Motion Video - adds the capability to receive encrypted and unencrypted full motion video and still imagery from Operational Facilities and Remote Video Terminals - Integrated CNI (ICNI) Rack 3A and 3B Backplane - Meet C2D2/ Block 4 processing, memory, and throughput requirements - EGI - hardware enabler for M-Code/Automatic Dependent Surveillance-Broadcast/Required Navigation Performance/area navigation capabilities - Band 2/3/4/5 EW HW - provides Band 2&5 RWR functionality by adding Band 2 Nose Landing Gear Door (NLGD) Aperture, Band 3/4 NLGD Aperture, Band 2/3/4 Array Electronic Module (AEM), Band 5 MADL AAA and AIU, and Band 5 IM - EW Group 2 HW - includes Wideband Receiver (WBR), Wideband Notch Filter Module (NFM), Band 2/5 Switch Matrix Module (SMM), M-Radio Frequency Converter,(M-RFC) and High Voltage Power Supply (HVPS) - adds technology to address the Advancing Threats, to detect and counter the LPI Emitter while providing Band 5 RWR functionality. - Countermeasures Controller (CMC) - Adds capability for smart programmable dispenser capability. <p>Unit, organic depot, or contractor field teams will complete the modification installs to coincide with resources and aircraft availability.</p> <p>FY 2023 reflects a \$143.4M increase for Block 4. At an enterprise level, the Lot 15 retrofit kit production capacity will increase to 196 kits per year with a corresponding increase in purchases for F-35A. Additionally, Lot 17 has a 3-year production lead-time due to the Electromagnetic Warfare (EW) components driving the need to begin purchases in FY 2023 to stay within one year of production. As such, FY 2023 will see simultaneous purchases of Lot 15, Lot 16, and Lot 17 retrofit kits in order to release capability to the field as quickly as prudently possible. Other government costs include the tooling capacity necessary to reach an enterprise capacity of 216 shipsets per year for Lot 17/18. Additionally, these costs include upgrades of offboard systems driven by the TR-3 upgrade to ensure continued functionality.</p> <p>Milestone/Development Status</p> <p>FY 2022 began the initial procurement of Lot 15 Block 4 Hardware. Due to technical issues, full Block 4 retrofit hardware will not be available until Lot 18. Retrofit hardware previously included in Lot 15-17 have been re-phased between Lot 15-18.</p>		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 6 / Block 4 Modifications			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-35A			Modification Type: Capability Improvement				Related RDT&E PEs: 0604840F					
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: COMMON: Block 4 B Kits												
B Kits												
Recurring												
COMMON: Block 4 B Kits:EQUIPMENT Group B (Active)	- / 17.210	- / 18.730	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.940
Subtotal: Recurring	- / 17.210	- / 18.730	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.940
Subtotal: COMMON: Block 4 B Kits	- / 17.210	- / 18.730	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.940
Modification Item 2 of 6: Lot 15												
A Kits												
Recurring												
Lot 15:INSTALL KITS Group A (Active)	- / -	- / -	58 / 120.000	97 / 205.640	- / -	97 / 205.640	30 / 63.600	23 / 48.760	16 / 33.920	28 / 59.360	132 / 279.840	384 / 811.120
Subtotal: Recurring	- / -	- / -	- / 120.000	- / 205.640	- / -	- / 205.640	- / 63.600	- / 48.760	- / 33.920	- / 59.360	- / 279.840	- / 811.120
Subtotal: Lot 15	- / -	- / -	- / 120.000	- / 205.640	- / -	- / 205.640	- / 63.600	- / 48.760	- / 33.920	- / 59.360	- / 279.840	- / 811.120
Modification Item 3 of 6: Lot 16												
A Kits												
Recurring												
Lot 16:INSTALL KITS Group A (Active)	- / -	- / -	- / -	60 / 6.000	- / -	60 / 6.000	97 / 9.700	88 / 8.800	42 / 4.200	- / -	- / -	287 / 28.700
Subtotal: Recurring	- / -	- / -	- / -	- / 6.000	- / -	- / 6.000	- / 9.700	- / 8.800	- / 4.200	- / -	- / -	- / 28.700
Subtotal: Lot 16	- / -	- / -	- / -	- / 6.000	- / -	- / 6.000	- / 9.700	- / 8.800	- / 4.200	- / -	- / -	- / 28.700
Modification Item 4 of 6: Lot 17												
A Kits												
Recurring												
Lot 17:INSTALL KITS Group A (Active)	- / -	- / -	- / -	32 / 43.200	- / -	32 / 43.200	62 / 83.700	75 / 101.250	80 / 108.000	80 / 108.000	4 / 5.400	333 / 449.550
Subtotal: Recurring	- / -	- / -	- / -	- / 43.200	- / -	- / 43.200	- / 83.700	- / 101.250	- / 108.000	- / 108.000	- / 5.400	- / 449.550
Subtotal: Lot 17	- / -	- / -	- / -	- / 43.200	- / -	- / 43.200	- / 83.700	- / 101.250	- / 108.000	- / 108.000	- / 5.400	- / 449.550
Modification Item 5 of 6: Lot 18												
A Kits												
Recurring												
Lot 18:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	60 / 122.400	75 / 153.000	80 / 163.200	80 / 163.200	81 / 165.240	376 / 767.040
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 122.400	- / 153.000	- / 163.200	- / 163.200	- / 165.240	- / 767.040
Subtotal: Lot 18	- / -	- / -	- / -	- / -	- / -	- / -	- / 122.400	- / 153.000	- / 163.200	- / 163.200	- / 165.240	- / 767.040

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F03500 / F-35 Modifications						Modification Number / Title: 6 / Block 4 Modifications		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-35A				Modification Type: Capability Improvement				Related RDT&E PEs: 0604840F				
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 6: Mag Retainer Plate												
A Kits												
Recurring												
Mag Retainer Plate:INSTALL KITS Group A (Active)	82 / 0.441	133 / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	215 / 1.241
Subtotal: Recurring	- / 0.441	- / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.241
Subtotal: Mag Retainer Plate	- / 0.441	- / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.241
Subtotal: Procurement, All Modification Items	- / 7.651	- / 9.530	- / 120.000	- / 254.840	- / -	- / 254.840	- / 279.400	- / 311.810	- / 309.320	- / 330.560	- / 450.480	- / 2,073.591
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / 10.767	- / 15.165	- / 11.195	- / 11.732	- / -	- / 11.732	- / 1.464	- / 1.464	- / 1.462	- / 1.462	- / -	- / 24.711
OTHER GOVT	- / 15.080	- / 14.165	- / 16.950	- / 16.071 ⁽¹⁾	- / -	- / 16.071	- / 16.359	- / 10.485	- / -	- / -	- / -	- / 39.110
ICS-Labor	- / 13.233	- / 16.202	- / 12.343	- / 11.256 ⁽²⁾	- / -	- / 11.256	- / 14.991	- / 13.206	- / 2.815	- / 17.808	- / -	- / 41.854
Subtotal: Support	- / 19.080	- / 25.532	- / 10.488	- / 19.059	- / -	- / 19.059	- / 12.814	- / 5.155	- / 4.277	- / 9.270	- / -	- / 105.675
Installation												
Modification Item 2 of 6: Lot 15	- / -	- / -	- / -	- / -	- / -	- / -	58 / 19.140	97 / 32.010	30 / 9.900	23 / 7.590	176 / 58.080	384 / 126.720
Modification Item 3 of 6: Lot 16	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.600	97 / 0.970	88 / 0.880	42 / 0.420	287 / 2.870
Modification Item 4 of 6: Lot 17	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 1.280	62 / 2.480	239 / 9.560	333 / 13.320
Modification Item 5 of 6: Lot 18	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 26.400	75 / 33.000	241 / 106.040	376 / 165.440
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	58 / 19.140	157 / 32.610	219 / 38.550	248 / 43.950	698 / 174.100	1,380 / 308.350
Total												
Total Cost (Procurement + Support + Installation)	26.731	35.062	130.488	273.899	0.000	273.899	311.354	349.575	352.147	383.780	624.580	2,487.616

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 6 / Block 4 Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 6: COMMON: Block 4 B Kits							
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): Org/Intermediate					Installation Quantity: 0		

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 6 / Block 4 Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 2 of 6: Lot 15

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
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		Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026
Delivery Dates		Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027	Dec 2028

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	58 / 19.140	- / -	- / -	- / -	- / -	58 / 19.140
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	97 / 32.010	- / -	- / -	- / -	97 / 32.010
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 9.900	- / -	- / -	30 / 9.900
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 7.590	- / -	23 / 7.590
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 5.280	16 / 5.280
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 9.240	28 / 9.240
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	132 / 43.560	132 / 43.560
Total	- / -	- / -	- / -	- / -	- / -	- / -	58 / 19.140	97 / 32.010	30 / 9.900	23 / 7.590	176 / 58.080	384 / 126.720

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	0	-	-	-	-	-	-	-	-	-	-	-	-	14	14	15	15	24	24	24	25	8	8	7	7	6	6	6	5	176	384
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	14	14	15	15	24	24	24	25	8	8	7	7	6	6	6	181	384

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 6 / Block 4 Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 3 of 6: Lot 16

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
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			Dec 2022	Dec 2023	Dec 2024	Dec 2025	
Delivery Dates			Dec 2024	Dec 2025	Dec 2026	Dec 2027	

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.600	- / -	- / -	- / -	60 / 0.600
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	97 / 0.970	- / -	- / -	97 / 0.970
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	88 / 0.880	- / -	88 / 0.880
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 0.420	42 / 0.420
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.600	97 / 0.970	88 / 0.880	42 / 0.420	287 / 2.870

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	15	25	25	24	23	22	22	22	22	42	287	
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	15	25	25	24	23	22	22	22	22	64	287

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 6 / Block 4 Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 4 of 6: Lot 17

Manufacturer Information

Manufacturer Name: Lockheed Martin Manufacturer Location: Fort Worth, TX

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 36

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026
Delivery Dates			Dec 2025	Dec 2026	Dec 2027	Dec 2028	Dec 2029

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 1.280	- / -	- / -	32 / 1.280
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 2.480	- / -	62 / 2.480
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 3.000	75 / 3.000
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 3.200	80 / 3.200
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 3.200	80 / 3.200
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.160	4 / 0.160
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 1.280	62 / 2.480	239 / 9.560	333 / 13.320

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	8	16	16	15	15	239	333
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	8	16	16	15	254	333

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 6 / Block 4 Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 5 of 6: Lot 18

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
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				Dec 2023	Dec 2024	Dec 2025	Dec 2026
Delivery Dates				Dec 2025	Dec 2026	Dec 2027	Dec 2028

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 26.400	- / -	- / -	60 / 26.400
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 33.000	- / -	75 / 33.000
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 35.200	80 / 35.200
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 35.200	80 / 35.200
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	81 / 35.640	81 / 35.640
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 26.400	75 / 33.000	241 / 106.040	376 / 165.440

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	15	18	19	19	19	241	376
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	15	18	19	19	260	376

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications			Modification Number / Title: 6 / Block 4 Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 6 of 6: Mag Retainer Plate							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 12			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Mar 2021						
Delivery Dates	Mar 2022						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 215		
<p>Footnotes:</p> <p>(1) FY2023 Other Gov't support costs consists of Capacity Tooling</p> <p>(2) ICS is required to support changes driven by Block 4 upgrades to fielded systems to include ALIS, Training Systems (simulators), JRE impacts, and support equipment.</p>							

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 7 / Propulsion

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	6.200	11.000	0.000	11.000	12.000	12.000	12.000	3.400	0.000	56.600
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	6.200	11.000	0.000	11.000	12.000	12.000	12.000	3.400	0.000	56.600
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	6.200	11.000	0.000	11.000	12.000	12.000	12.000	3.400	0.000	56.600

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Propulsion Program is established for the correction of engine related readiness degraders impacting F-35 CTOL Reliability Maintainability and Availability (RM&A), production deficiencies, obsolescence, and reduction of life-cycle costs. These modifications (MODs) will be accomplished by field or depot retrofit and implemented to coincide with resources and aircraft availability. In order to meet the goal of increasing readiness, the propulsion systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals. The reliability and readiness initiatives included in the proposed category are projected to have a significant positive impact to the F-35 CTOL F135 engine.

Propulsion programs include but are not limited to Lockwireless Fittings, Thrust Recovery, Electronic Ice Protection System (EIPS), Multi-attitude Deaerator (MAD) Gearbox redesign, Main Fuel Throttle Valve (MFTV) Bellows/Electro-Hydraulic Servo Valve (EHSV), Gearbox Idler; Nozzle Wear Tilt Improvement, and Heaterless Nosecone Elimination.

Milestone/Development Status

FY 2023 is the initial procurement year for material. Installation completed at the organic depot.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F03500 / F-35 Modifications				Modification Number / Title: 7 / Propulsion					
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-35A				Modification Type: Other				Related RDT&E PEs: 0604800F, 0604840F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Propulsion B Kits													
A Kits													
Recurring													
Propulsion B Kits:INSTALL KITS Group A (Active)	- / -	- / -	29 / 5.800	57 / 9.000	- / -	57 / 9.000	43 / 8.600	37 / 7.400	43 / 8.600	- / -	- / -	209 / 39.400	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 5.800	- / 9.000	- / -	- / 9.000	- / 8.600	- / 7.400	- / 8.600	- / -	- / -	- / 39.400	
<i>Subtotal: Propulsion B Kits</i>	- / -	- / -	- / 5.800	- / 9.000	- / -	- / 9.000	- / 8.600	- / 7.400	- / 8.600	- / -	- / -	- / 39.400	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 5.800	- / 9.000	- / -	- / 9.000	- / 8.600	- / 7.400	- / 8.600	- / -	- / -	- / 39.400	
Support (All Modification Items)													
OTHER GOVT	- / -	- / -	- / 0.400	- / 0.600	- / -	- / 0.600	- / 1.000	- / 1.000	- / 1.000	- / 1.000	- / -	- / 5.000	
<i>Subtotal: Support</i>	- / -	- / -	- / 0.400	- / 0.600	- / -	- / 0.600	- / 1.000	- / 1.000	- / 1.000	- / 1.000	- / -	- / 5.000	
Installation													
<i>Modification Item 1 of 1:</i> Propulsion B Kits	- / -	- / -	- / -	29 / 1.400	- / -	29 / 1.400	57 / 2.400	43 / 3.600	37 / 2.400	43 / 2.400	- / -	209 / 12.200	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	29 / 1.400	- / -	29 / 1.400	57 / 2.400	43 / 3.600	37 / 2.400	43 / 2.400	- / -	209 / 12.200	
Total													
Total Cost (Procurement + Support + Installation)	-	0.000	6.200	11.000	0.000	11.000	12.000	12.000	12.000	3.400	0.000	56.600	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 7 / Propulsion
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Propulsion B Kits

Manufacturer Information

Manufacturer Name: Pratt & Whitney Manufacturer Location: Hartford, CT

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 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	
Delivery Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	29 / 1.400	- / -	29 / 1.400	- / -	- / -	- / -	- / -	- / -	29 / 1.400
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	57 / 2.400	- / -	- / -	- / -	- / -	57 / 2.400
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 3.600	- / -	- / -	- / -	43 / 3.600
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 2.400	- / -	- / -	37 / 2.400
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 2.400	- / -	43 / 2.400
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	29 / 1.400	- / -	29 / 1.400	57 / 2.400	43 / 3.600	37 / 2.400	43 / 2.400	- / -	209 / 12.200

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	0	-	-	-	-	-	-	-	-	7	7	7	8	14	14	15	14	11	11	11	10	10	9	9	9	10	11	11	11	0	209
Out	0	-	-	-	-	-	-	-	-	-	7	7	7	8	14	14	15	14	11	11	11	10	10	9	9	9	10	11	11	11	209

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 8 / Reliability and Maintainability
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.000	2.100	5.100	0.000	5.100	8.500	4.500	5.500	1.858	0.000	27.558
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.000	2.100	5.100	0.000	5.100	8.500	4.500	5.500	1.858	0.000	27.558
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	0.000	2.100	5.100	0.000	5.100	8.500	4.500	5.500	1.858	0.000	27.558

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This effort is established for the correction of readiness degraders impacting F-35A cost per flight hour, Reliability Maintainability and Availability (RM&A), obsolescence, and reduction of life-cycle costs. These modifications will be accomplished by field mod team and implemented to coincide with resources and aircraft availability.

In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECP's). Individual ECPs will be listed once identified. The reliability and readiness initiatives included in this effort are projected to have a significant positive impact to the F-35A Aircraft platform. Reliability and maintainability efforts started in FY 2019 resulted from the Secretary of Defense's 80% Mission Capability mandate.

Milestone/Development Status

FY 2023 was determined as the transition point from correction of deficiencies to Reliability & Maintainability. FY 2021 Other Support is \$20M Congressional Add for RMIP, which was internally realigned to full funding (BP-10).

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 8 / Reliability and Maintainability			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-35A				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0604800F, 0604840F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Reliability & Maintainability A Kits</i>													
A Kits													
Recurring													
Reliability & Maintainability A Kits:INSTALL KITS Group A (Active)	- / -	- / -	21 / 1.600	81 / 4.200	- / -	81 / 4.200	78 / 6.000	28 / 2.200	55 / 4.200	- / -	- / -	263 / 18.200	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 1.600	- / 4.200	- / -	- / 4.200	- / 6.000	- / 2.200	- / 4.200	- / -	- / -	- / 18.200	
<i>Subtotal: Reliability & Maintainability A Kits</i>	- / -	- / -	- / 1.600	- / 4.200	- / -	- / 4.200	- / 6.000	- / 2.200	- / 4.200	- / -	- / -	- / 18.200	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 1.600	- / 4.200	- / -	- / 4.200	- / 6.000	- / 2.200	- / 4.200	- / -	- / -	- / 18.200	
Support (All Modification Items)													
OTHER GOVT	- / -	- / -	- / 0.500	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / -	- / 3.000	
<i>Subtotal: Support</i>	- / -	- / -	- / 0.500	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / -	- / 3.000	
Installation													
<i>Modification Item 1 of 1: Reliability & Maintainability A Kits</i>													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	21 / 0.400	- / -	21 / 0.400	81 / 2.000	78 / 1.800	28 / 0.800	55 / 1.358	- / -	263 / 6.358	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	21 / 0.400	- / -	21 / 0.400	81 / 2.000	78 / 1.800	28 / 0.800	55 / 1.358	- / -	263 / 6.358	
Total													
Total Cost (Procurement + Support + Installation)	-	0.000	2.100	5.100	0.000	5.100	8.500	4.500	5.500	1.858	0.000	27.558	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 8 / Reliability and Maintainability

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: Reliability & Maintainability A Kits

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Ft Worth, TX
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 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	
Delivery Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	21 / 0.400	- / -	21 / 0.400	- / -	- / -	- / -	- / -	- / -	21 / 0.400
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	81 / 2.000	- / -	- / -	- / -	- / -	81 / 2.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	78 / 1.800	- / -	- / -	- / -	78 / 1.800
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.800	- / -	- / -	28 / 0.800
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 1.358	- / -	55 / 1.358
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	21 / 0.400	- / -	21 / 0.400	81 / 2.000	78 / 1.800	28 / 0.800	55 / 1.358	- / -	263 / 6.358

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	0	-	-	-	-	-	-	-	-	5	5	5	6	20	20	20	21	20	20	19	19	7	7	7	7	14	14	14	13	0	263
Out	0	-	-	-	-	-	-	-	-	-	5	5	5	6	20	20	20	21	20	20	19	19	7	7	7	7	14	14	14	13	263

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F15EWS / F-15 EPAW
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207171F	Other Related Program Elements: 0207146F
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Line Item MDAP/MAIS Code: 485

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	272.633	0.000	149.797	259.837	-	259.837	268.637	318.962	329.085	336.215	670.182	2,605.348
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	272.633	0.000	149.797	259.837	-	259.837	268.637	318.962	329.085	336.215	670.182	2,605.348
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	272.633	0.000	149.797	259.837	-	259.837	268.637	318.962	329.085	336.215	670.182	2,605.348

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	28.005	19.796	-	19.796	11.206	13.434	27.716	28.316	-	128.473
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The legacy F-15 Tactical Electronic Warfare System (TEWS) is functionally obsolete. It uses 1970's analog technology to combat 1980s-era radar-based ground and air threats. In addition, this aging system is becoming more difficult and expensive to sustain. As a result, the Air Force is replacing TEWS with the F-15 Eagle Passive/Active Warning and Survivability System (EPAWSS). F-15 EPAWSS is an advanced digital electronic warfare system capable of detecting, identifying, locating, denying, degrading, disrupting, and defeating modern and emerging threat systems in contested airspace with dense radio-frequency (RF) background environments. F-15 EPAWSS will provide indication, type, and position of ground-based RF threats as well as the indication, type, and bearing of airborne threats with the situational awareness needed to avoid, engage, or negate the threat. It will also prevent RF threat systems from detecting or acquiring accurate targeting information to complicate and/or negate an enemy threat targeting solution. Finally, EPAWSS will counter numerous RF and infrared threat systems at end-game via electronic countermeasures (jamming), chaff, and/or flares.

Funding will be used to procure and install both Low-Rate Initial Production and Full-Rate Production quantities of F-15E EPAWSS. These activities include efforts such as standing up the modification line/facility; monitoring and resolution of known/unknown Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues; System Engineering/Program Management; procurement and installation of EPAWSS hardware; sparing; certification/verification; development/update of technical orders/manuals; updates to software/operating systems; repair of Government Furnished Property (GFP); interim contractor support; Support Equipment; and Gap Analysis for Organic Depot Stand-up. Funding may also be used for other interdependent F-15E modification efforts.

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
F15EWS / F-15 EPAW

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207171F **Other Related Program Elements:** 0207146F

Line Item MDAP/MAIS Code: 485

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	8796 / EPAWSS F-15E (Capability Improvement)		B		- / 272.633	- / 0.000	- / 149.797	- / 259.837	- / 0.000	- / 259.837
P-40	Total Gross/Weapon System Cost				- / 272.633	- / 0.000	- / 149.797	- / 259.837	- / -	- / 259.837

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	8796 / EPAWSS F-15E (Capability Improvement)		B		- / 268.637	- / 318.962	- / 329.085	- / 336.215	- / 670.182	- / 2,605.348
P-40	Total Gross/Weapon System Cost				- / 268.637	- / 318.962	- / 329.085	- / 336.215	- / 670.182	- / 2,605.348

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

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

Justification:
The F-15 is a versatile 4th-generation fighter aircraft and is central to Combatant Commanders' ability to fulfill the National Defense Strategy (Joint Lethality in Contested Environments) for numerous operational plans (OPLANS) and contingency plans (CONPLANS) in near-peer conflicts. The proliferation of fourth generation enemy aircraft, sophisticated "double-digit" anti-aircraft missile systems, and other threat systems pose a significant threat to F-15 survivability. Therefore, it is necessary to invest in the F-15 platform to ensure it remains viable well into the 21st century. The F-15 Eagle Passive Active Warning and Survivability System (EPAWSS) replaces the legacy, functionally-obsolete F-15 Tactical Electronic Warfare System. F-15 EPAWSS is a 21st century electronic warfare system which includes electronic detection and identification, geolocation, electronic countermeasures (jamming), and countermeasures dispensing (chaff/flares). The EPAWSS upgrade will significantly improve the F-15's ability to detect, identify, and locate Radio Frequency (RF) threats as well as deny, degrade, deceive, disrupt, and defeat RF and electro-optical / infrared threat systems within highly contested environments.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F15EWS / F-15 EPAW	Modification Number / Title: 8796 / EPAWSS F-15E

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	272.633	0.000	149.797	259.837	0.000	259.837	268.637	318.962	329.085	336.215	670.182	2,605.348
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	272.633	0.000	149.797	259.837	0.000	259.837	268.637	318.962	329.085	336.215	670.182	2,605.348
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	272.633	0.000	149.797	259.837	0.000	259.837	268.637	318.962	329.085	336.215	670.182	2,605.348

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	28.005	19.796	-	19.796	11.206	13.434	27.716	28.316	-	128.473
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-15 is a versatile 4th-generation fighter aircraft and is central to Combatant Commanders' ability to fulfill the National Defense Strategy (Joint Lethality in Contested Environments) for numerous operational plans (OPLANS) and contingency plans (CONPLANS) in near-peer conflicts. The proliferation of fourth generation enemy aircraft, sophisticated "double-digit" anti-aircraft missile systems, and other threat systems pose a significant threat to F-15 survivability. Therefore, it is necessary to invest in the F-15 platform to ensure it remains viable well into the 21st century. The F-15 Eagle Passive Active Warning and Survivability System (EPAWSS) replaces the legacy federated, analog, and functionally-obsolete F-15 Tactical Electronic Warfare System. F-15 EPAWSS is a 21st century integrated and digital electronic warfare suite which includes electronic detection and identification, geolocation, electronic countermeasures (jamming), and countermeasures dispensing (chaff/flares). The EPAWSS upgrade will significantly improve the F-15's ability to detect, identify, and locate Radio Frequency (RF) threats as well as deny, degrade, deceive, disrupt, and defeat RF and electro-optical / infrared threat systems within highly contested environments.

Milestone/Development Status

The program recovered from a Significant Nunn-McCurdy breach in June 2019 and re-baselined. The EMD period-of-performance was extended through CY 2023 and the program had a successful Milestone C Decision Point in early FY 2021 (procurement decision) which will be followed by a second decision point in May 2022 (deployment/installation decision). This tailored acquisition strategy enables earlier initiation of Low Rate Initial Production (LRIP) and takes procurement of the EPAWSS hardware (long-lead) off the program critical path. The program initiated LRIP in December 2020, definitized the contract in September 2021, and will begin hardware installations on operational aircraft in July 2022, pending successful deployment/ installation decision in May 2022.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F15EWS / F-15 EPAW				Modification Number / Title: 8796 / EPAWSS F-15E					
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-15E				Modification Type: Capability Improvement				Related RDT&E PEs: 0207146F, 0207171F					
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)	
RDT&E PE #													
0207171F	6 / 179.354	2 / 170.368	- / 112.012	- / 67.956	- / -	- / 67.956	- / 13.950	- / -	- / -	- / -	- / -	8 / 543.640	
Procurement													
Modification Item 1 of 1: F-15E EPAWSS													
A Kits													
Recurring													
F-15E EPAWSS:INSTALL KITS Group A (Active)	6 / 5.578	- / -	18 / 16.735	19 / 21.200	- / -	19 / 21.200	25 / 28.700	30 / 35.300	32 / 38.700	33 / 41.000	54 / 61.616	217 / 248.829	
<i>Subtotal: Recurring</i>	- / 5.578	- / -	- / 16.735	- / 21.200	- / -	- / 21.200	- / 28.700	- / 35.300	- / 38.700	- / 41.000	- / 61.616	- / 248.829	
B Kits													
Recurring													
F-15E EPAWSS:EQUIPMENT Group B (Active)	6 / 25.139	- / -	18 / 66.145	19 / 67.900	- / -	19 / 67.900	25 / 91.300	30 / 109.900	32 / 113.200	33 / 117.400	54 / 175.300	217 / 766.284	
<i>Subtotal: Recurring</i>	- / 25.139	- / -	- / 66.145	- / 67.900	- / -	- / 67.900	- / 91.300	- / 109.900	- / 113.200	- / 117.400	- / 175.300	- / 766.284	
<i>Subtotal: F-15E EPAWSS</i>	- / 30.717	- / -	- / 82.880	- / 89.100	- / -	- / 89.100	- / 120.000	- / 145.200	- / 151.900	- / 158.400	- / 236.916	- / 1,015.113	
<i>Subtotal: Procurement, All Modification Items</i>	- / 30.717	- / -	- / 82.880	- / 89.100	- / -	- / 89.100	- / 120.000	- / 145.200	- / 151.900	- / 158.400	- / 236.916	- / 1,015.113	
Support (All Modification Items)													
ICS-Labor	- / 145.687	- / -	- / 14.968	- / 13.219	- / -	- / 13.219	- / 18.712	- / 22.553	- / 21.486	- / 16.443	- / 10.300	- / 153.368	
Type 1 Training	- / 0.593	- / -	- / 0.137	- / 0.140	- / -	- / 0.140	- / 0.147	- / 0.153	- / 0.159	- / 0.163	- / 0.514	- / 2.006	
OTHER GOVT	- / 87.664	- / -	- / 14.180	- / 10.321	- / -	- / 10.321	- / 14.669	- / 15.934	- / 16.510	- / 17.627	- / 33.823	- / 210.728	
Data	- / 14.022	- / -	- / 11.453	- / 14.532	- / -	- / 14.532	- / 6.291	- / 6.932	- / 7.974	- / 7.821	- / 17.900	- / 56.925	
Change Orders	- / 15.889	- / -	- / 8.899	- / 25.915	- / -	- / 25.915	- / 21.134	- / 18.537	- / 17.724	- / 11.862	- / 52.400	- / 162.360	
PMA - Other Gov't Costs	- / 17.414	- / -	- / 14.856	- / 19.432	- / -	- / 19.432	- / 13.344	- / 14.611	- / 16.884	- / 16.907	- / 33.374	- / 116.822	
SUPPORT-EQUIP	- / 190.647	- / -	- / 17.100	- / 11.458	- / -	- / 11.458	- / 14.421	- / 14.477	- / 14.488	- / 15.533	- / -	- / 105.124	
<i>Subtotal: Support</i>	- / 241.916	- / -	- / 41.593	- / 65.017	- / -	- / 65.017	- / 75.718	- / 80.197	- / 82.225	- / 72.356	- / 148.311	- / 807.333	
Installation													
Modification Item 1 of 1: F-15E EPAWSS	- / -	- / -	6 / 25.324	18 / 105.720	- / -	18 / 105.720	19 / 72.919	25 / 93.565	30 / 94.960	32 / 105.459	87 / 284.955	217 / 782.902	
<i>Subtotal: Installation</i>	- / -	- / -	6 / 25.324	18 / 105.720	- / -	18 / 105.720	19 / 72.919	25 / 93.565	30 / 94.960	32 / 105.459	87 / 284.955	217 / 782.902	
Total													
Total Cost (Procurement + Support + Installation)	272.633	0.000	149.797	259.837	0.000	259.837	268.637	318.962	329.085	336.215	670.182	2,605.348	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F15EWS / F-15 EPAW	Modification Number / Title: 8796 / EPAWSS F-15E
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: F-15E EPAWSS

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis, MO/San Antonio, TX
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 16

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Apr 2022	Apr 2023	Apr 2024	Apr 2025	Apr 2026	Apr 2027
Delivery Dates		Aug 2023	Aug 2024	Aug 2025	Aug 2026	Aug 2027	Aug 2028

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	6 / 25.324	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 25.324
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	18 / 105.720	- / -	18 / 105.720	- / -	- / -	- / -	- / -	- / -	18 / 105.720
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	19 / 72.919	- / -	- / -	- / -	- / -	19 / 72.919
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 93.565	- / -	- / -	- / -	25 / 93.565
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 94.960	- / -	- / -	30 / 94.960
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 105.459	- / -	32 / 105.459
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 108.735	33 / 108.735
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 176.220	54 / 176.220
Total	- / -	- / -	6 / 25.324	18 / 105.720	- / -	18 / 105.720	19 / 72.919	25 / 93.565	30 / 94.960	32 / 105.459	87 / 284.955	217 / 782.902

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	0	-	-	-	-	0	0	0	6	3	5	5	5	5	5	4	5	7	6	6	6	8	8	7	7	8	8	8	8	87	217
Out	0	-	-	-	-	-	-	-	-	3	0	2	1	3	5	5	5	5	5	4	5	7	6	6	6	8	8	7	7	119	217

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F2232B / Increment 3.2b
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207138F	Other Related Program Elements: 0605213F
--	--	---

Line Item MDAP/MAIS Code: 474

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	293.944	1.289	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	295.233
Less PY Advance Procurement (<i>\$ in Millions</i>)	30.500	-	-	-	-	-	-	-	-	-	-	30.500
Net Procurement (P-1) (<i>\$ in Millions</i>)	263.444	1.289	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	264.733
Plus CY Advance Procurement (<i>\$ in Millions</i>)	30.500	-	-	-	-	-	-	-	-	-	-	30.500
Total Obligation Authority (<i>\$ in Millions</i>)	293.944	1.289	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	295.233

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Increment 3.2B work has been completed, no future updates will be made to this document.

Increment 3.2B retrofits Block 30 and 35 aircraft with hardware and software to host Increment 3.2B capabilities including the Enhanced Stores Management System (ESMS) Common Split Bus, AIM-120D, AIM-9X, Electronic Protection enhancements, Intra-Flight Datalink (IFDL) improvements, and Geolocate 2.0. Increment 3.2B is the user's highest priority for F-22.

The F-22 Raptor's Modernization Development is conducted using a rapid acquisition construct leveraging commercial best practices such as Agile and Lean. This allows the F-22 Raptor program to develop, test, and field software/hardware from multiple programs (product lines) using a scheduled cadence for capabilities as they mature. The F-22 Raptor program's utilization of these commercial best practices during production activities will allow for concurrent installations of mature Group A and Group B hardware and software of multiple product lines, delivering war fighter capabilities to the field earlier than under historical acquisition practices.

Funding for this exhibit is contained in PE 0207138F.

The RDT&E funding for this effort is contained in PE 0605213F (FY04 - FY18); PE 0207163F (FY10 - FY13); PE 0207445F (FY07 - FY10); and PE 020001F (FY07).

Determined attempts to deny US air superiority from peer threats within the Indo-Pacific region have driven a Congressional Interest Item (CII), Emergency and Special Program (ESP) Code G3, to highlight investments and activities that will build forces that are lethal, resilient, ready, and postured to respond quickly and effectively against aggression. The F-22 Raptor is a key component of the Pacific Deterrence Initiative (PDI) for increasing joint force lethality and maintaining a credible deterrent in theater.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.334	-	-	-	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F2232B / Increment 3.2b
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207138F	Other Related Program Elements: 0605213F
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Line Item MDAP/MAIS Code: 474

	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	0.955	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	1.289	-	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
F2232B / Increment 3.2b

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207138F **Other Related Program Elements:** 0605213F

Line Item MDAP/MAIS Code: 474

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	11100 / INCREMENT 3.2B (Capability Improvement)		B		- / 293.944	- / 1.289	- / 0.000	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 293.944	- / 1.289	- / 0.000	- / 0.000	- / -	- / 0.000

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	11100 / INCREMENT 3.2B (Capability Improvement)		B		- / -	- / -	- / -	- / -	- / -	- / 295.233
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 295.233

*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:
Where applicable, justification for individual modifications is provided in the P-3A exhibits.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F2232B / Increment 3.2b	Modification Number / Title: 11100 / INCREMENT 3.2B

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	293.944	1.289	0.000	-	-	-	-	-	-	-	-	295.233
Less PY Advance Procurement (<i>\$ in Millions</i>)	30.500	-	-	-	-	-	-	-	-	-	-	30.500
Net Procurement (P-1) (<i>\$ in Millions</i>)	263.444	1.289	0.000	-	-	-	-	-	-	-	-	264.733
Plus CY Advance Procurement (<i>\$ in Millions</i>)	30.500	-	-	-	-	-	-	-	-	-	-	30.500
Total Obligation Authority (<i>\$ in Millions</i>)	293.944	1.289	0.000	-	-	-	-	-	-	-	-	295.233

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Increment 3.2B retrofits Block 30 and 35 aircraft with hardware and software to host Increment 3.2B Enhanced Stores Management System (ESMS) Common Split Bus, AIM-120D, AIM-9X, Electronic Protection enhancements, IFDL improvements, Geolocate 2.0 capability and installs display upgrades, more capable memory and improved computer processors. Increment 3.2B will retrofit 143 aircraft in the fleet. Along with Update 6, Increment 3.2B is the user's highest priority for F-22. Retrofit installations started at Langley AFB in FY19 and now includes retrofit installations at Hickam AFB and Elmendorf AFB in FY20. FY20 includes the initial retrofit contractor field team setup for Elmendorf AB and Hickam AB. Increment 3.2B installation costs vary by specific aircraft block and location.

Milestone/Development Status

LRIP installs began in May 2019. The last milestone of Required Assets Available was reached on 27 Aug 2019 (prior to the 30 Sep 2019 threshold). Installs are scheduled to complete.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.334	-	-	-	-	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.955	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	1.289	0.000	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F2232B / Increment 3.2b					Modification Number / Title: 11100 / INCREMENT 3.2B			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0605213F, 0207138F					
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)	
RDT&E PE #													
0207138F	- / 977.829	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 977.829	
Procurement													
Modification Item 1 of 1: Inc 3.2B Kits													
A Kits													
Recurring													
Inc 3.2B Kits:INSTALL KITS Group A (Active)	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	
B Kits													
Recurring													
Inc 3.2B Kits:EQUIPMENT Group B (Active)	123 / 128.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	123 / 128.024	
Inc 3.2B Kits:EQUIPMENT Group B (Guard)	20 / 23.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 23.200	
Subtotal: Recurring	- / 151.224	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 151.224	
Subtotal: Inc 3.2B Kits	- / 151.224	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 151.224	
Subtotal: Procurement, All Modification Items	- / 151.224	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 151.224	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 78.425	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 78.425	
Data	- / 6.180	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.180	
SUPPORT-EQUIP	- / 17.098	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.098	
PMA - Other Gov't Costs	- / 14.142	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.142	
Subtotal: Support	- / 115.845	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 115.845	
Installation													
Modification Item 1 of 1: Inc 3.2B Kits	116 / 26.875	27 / 1.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 28.164	
Subtotal: Installation	116 / 26.875	27 / 1.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 28.164	
Total													
Total Cost (Procurement + Support + Installation)	293.944	1.289	0.000	-	-	-	-	-	-	-	-	295.233	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F2232B / Increment 3.2b	Modification Number / Title: 11100 / INCREMENT 3.2B
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Inc 3.2B Kits

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, 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							
Delivery Dates							

Installation Information

Method of Implementation: Contract Field Team

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	116 / 26.875	27 / 1.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 28.164
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	116 / 26.875	27 / 1.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 28.164

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	74	17	23	20	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	143
Out	59	17	23	20	15	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	143

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: KC046A / KC-46A MDAP
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401221F	Other Related Program Elements: 0401221F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.038	2.000	1.984	0.467	-	0.467	0.000	0.000	0.000	0.000	6,978.584	6,983.073
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.038	2.000	1.984	0.467	-	0.467	0.000	0.000	0.000	0.000	6,978.584	6,983.073
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.038	2.000	1.984	0.467	-	0.467	0.000	0.000	0.000	0.000	6,978.584	6,983.073

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The KC-46 will provide the capability to fuel joint and coalition receivers via a boom or drogue system on every mission and will also augment the airlift fleet with cargo, passenger, and aeromedical evacuation capabilities. The KC-46 will operate in day/night and adverse weather conditions to enable deployment, employment, sustainment, and redeployment of U.S. joint, allied, and coalition forces. The KC-46 will have communication, navigation, and surveillance equipment for world-wide operations; the capability to perform missions in chemical and biological environments; the ability to operate in up to medium threat environments with self-defense/protection (both active and passive) capabilities; and the necessary battle space awareness to mitigate survivability threats. The dynamics and mission urgency of the post-production environment requires the program to maintain flexible and responsive posture to support a broad range of mission support needs. The KC-46 will continue to identify, design, develop, integrate, verify, certify, produce, install, field, and sustain a comprehensive range of non-recurring and recurring post-production, air vehicle enhancements and field support needs. These needs may originate from programmed Mobility Air Force (MAF) requirements, Combatant Commander Joint or Urgent Operational Needs (JUON/UON), non-programmed Federal Aviation Administration (FAA) directives, or correction of deficiency reports.

The KC-46 will continue to develop, field, and sustain warfighter capabilities to meet evolving threats and mission support requirements through Block or discrete modification or modernization programs depending on mission urgency, available funding, and programmatic and technical risks. Post-production requirements can include, but will not be limited to, avionics and structural systems/architecture and subsystem updates, general mission equipment updates and procurement, general sustainment support, studies and analyses, and correction of deficiency reports.

Other modifications to the KC-46 through the FYDP include, but are not limited to, R&M, Safety Mods, Avionics and Flight Systems enhancements (described as the Pegasus Advanced Communications Suite (PACS) modification), efforts executed under the auspices of Pegasus Combat Capability (PC2) (M-Code Global Positioning System (GPS), Multifunctional Information Distribution Systems (MIDS) Enhancements, Advanced Communication Systems, Survivability and Mission Performance), requirements identified and supported by Major Command (MAJCOM)-approved 1067s, Higher Headquarters (HHQ) Enterprise Capability Collaboration Teams (i.e., High Value Airborne Asset [HVAA], Air Superiority 2030, and Multi-Domain Command and Control [MDC2]), Airworthiness Directives (ADs)/Service Bulletins (SBs), and Low Cost Modifications (LCMs).

Funding for this exhibit contained in PE 0401221F.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft		P-1 Line Item Number / Title: KC046A / KC-46A MDAP
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401221F	Other Related Program Elements: 0401221F
Line Item MDAP/MAIS Code: N/A		
This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.		
Justification: FY 2023 funding will support LCMs. FY 2023 funding may also support the integration of ADs/SBs and other reported issues to correct identified deficiencies, provide product improvements, and maintain FAA certification compliance for the aircraft.		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C00500 / C-5
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401119F, 0401897F	Other Related Program Elements: 0401119F, 0401897F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	163.864	50.279	20.330	46.027	-	46.027	24.306	57.780	32.149	32.845	106.065	533.645
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	163.864	50.279	20.330	46.027	-	46.027	24.306	57.780	32.149	32.845	106.065	533.645
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	163.864	50.279	20.330	46.027	-	46.027	24.306	57.780	32.149	32.845	106.065	533.645

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	0.200	-	-	-	-	-	-	-	-	-	0.200
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the C-5M aircraft. The C-5M carries outsized and heavy cargo (tanks, helicopters, etc.) between main operating bases. Additionally, the aircraft is capable of carrying 73 troops and 36 standard 463-L pallets. Modifications increase operational capability while improving flight safety, reliability, and maintainability.

There are 52 C-5M aircraft in the Air Force fleet. The fleet was delivered to the Air Force between 1969 and 1989. Initial service life for the aircraft was 30,000 flight hours. Service life is extended out to 2040 as a result of the reliability enhancement and re-engining program (RERP) modification.

Available funds will be used for C-5M Mission Systems Equipment- Lavatory, Core Mission Computer and Weather Radar (CMC/WxRadar), C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM), C-5M Replace Multi-Functional Controls and Display (RMCD) and Low Cost Modifications (Capability Improvement), along with program support, studies and analysis, risk reduction efforts, Advisory and Assistance Services, change orders, and other government costs such as travel, directorate support, government furnished equipment (GFE), and over and above costs. Funding may also be used to address Diminishing Manufacturing Sources (DMS) through studies and analysis, bridge buys, life-of-type buys, etc.

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.

These modifications support performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Funding for this exhibit is contained in PE 0401119F and under mod line 8969, C-5 Training Systems (Training Mods), is contained in PE 0401897F

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	41.363	18.051	43.845	-	43.845	19.487	52.051	26.350	27.192
AFR									
Quantity	-	-	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C00500 / C-5
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401119F, 0401897F	Other Related Program Elements: 0401119F, 0401897F
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Line Item MDAP/MAIS Code: N/A

	Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
	Total Obligation Authority	8.916	2.279	2.182	-	2.182	4.819	5.729	5.799	5.653
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	50.279	20.330	46.027	-	46.027	24.306	57.780	32.149	32.845

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C00500 / C-5

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0401119F, 0401897F **Other Related Program Elements:** 0401119F, 0401897F

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-40a***	8964 / C-5 Replace Multifunctional Co (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8965 / C-5 Fleet Blk Upgrade 01 (Other)				- / 13.093	- / -	- / -	- / -	- / -	- / -
P-40a***	8966 / C-5 Mission Systems Equipment- Lavatory (Other)				- / 29.146	- / 12.866	- / 0.638	- / 2.366	- / -	- / 2.366
P-40a***	8968 / C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) (Capability Improvement)				- / 40.785	- / 26.940	- / -	- / 1.670	- / -	- / 1.670
P-40a***	8969 / C-5 Training Systems (Training Mods) (Capability Improvement)				- / -	- / -	- / 7.848	- / 3.633	- / -	- / 3.633
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 0.000	- / -	- / -	- / 0.100	- / -	- / 0.100
P-3a	8967 / Mission Computer and Weather Radar (Other)		B		- / 80.840	- / 10.473	- / 11.844	- / 7.904	- / 0.000	- / 7.904
P-3a	8978 / Distributed Mission Operations (DMO) and Mobility Air Force (MAF) Training (Capability Improvement)		B		- / -	- / 0.000	- / 0.000	- / 12.354	- / 0.000	- / 12.354
P-3a	8979 / Maintenance Training Simulator (Capability Improvement)		B		- / -	- / 0.000	- / 0.000	- / 18.000	- / 0.000	- / 18.000
P-40	Total Gross/Weapon System Cost				- / 163.864	- / 50.279	- / 20.330	- / 46.027	- / -	- / 46.027

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-40a***	8964 / C-5 Replace Multifunctional Co (Reliability & Maintainability)				- / -	- / 38.427	- / 25.909	- / 27.845	- / 106.065	- / 198.246
P-40a***	8965 / C-5 Fleet Blk Upgrade 01 (Other)				- / -	- / -	- / -	- / -	- / -	- / 13.093
P-40a***	8966 / C-5 Mission Systems Equipment- Lavatory (Other)				- / 5.161	- / 5.161	- / 1.240	- / -	- / -	- / 56.578
P-40a***	8968 / C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) (Capability Improvement)				- / 4.991	- / -	- / -	- / -	- / -	- / 74.386
P-40a***	8969 / C-5 Training Systems (Training Mods) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 11.481
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 3.420	- / 5.000	- / 5.000	- / 5.000	- / -	- / 18.520
P-3a	8967 / Mission Computer and Weather Radar (Other)		B		- / 10.734	- / 9.192	- / 0.000	- / -	- / -	- / 130.987
P-3a	8978 / Distributed Mission Operations (DMO) and Mobility Air Force (MAF) Training (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 12.354
P-3a	8979 / Maintenance Training Simulator (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 18.000
P-40	Total Gross/Weapon System Cost				- / 24.306	- / 57.780	- / 32.149	- / 32.845	- / 106.065	- / 533.645

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod 8978, Distributed Mission Operations (DMO) and Mobility Air Force (MAF) Training, is a new start.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft		P-1 Line Item Number / Title: C00500 / C-5
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401119F, 0401897F	Other Related Program Elements: 0401119F, 0401897F
Line Item MDAP/MAIS Code: N/A		

This program, P-3A Mod 8979, Maintenance Training Simulator, is a new start.

Where applicable, justification for individual modifications is provided in the P-3A exhibits.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	80.840	10.473	11.844	7.904	0.000	7.904	10.734	9.192	0.000	-	-	130.987
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	80.840	10.473	11.844	7.904	0.000	7.904	10.734	9.192	0.000	-	-	130.987
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	80.840	10.473	11.844	7.904	0.000	7.904	10.734	9.192	0.000	-	-	130.987

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	2.460	-	-	-	-	-	-	-	-	-	-	2.460
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-5M core mission computer (CMC) and weather radar (WxRadar) requirement is for the modification of 50 C-5M aircraft. The CMC/WxRadar replacement program is a comprehensive permanent sustainment modification, as described in validated requirements per AMC AF Form 1067s 11-152 and 11-153, to mitigate the obsolescence of the current CMC and WxRadar. This effort centers around modifying the current CMC, to obtain sufficient throughput/capability to support integration of the WxRadar with margin for growth to accommodate future requirements. This includes requirements to meet calendar year 2020 FAA Automatic Dependent Surveillance-Broadcast (ADS-B) Out and Communication, Navigation, Surveillance/Air Traffic Management (CNS/ATM) requirements. The program will modify a total of 52 aircraft; 2 during Engineering and Manufacturing Development and 50 during Production.

The CMC/WxRadar modification is necessary to keep the C-5M worldwide deployable. This effort replaces the APS-133 WxRadar, resolving severe diminishing manufacturing source (DMS) issues, using the Rockwell Collins WXR-2100 commercial off-the-shelf WxRadar, which is common to other aircraft platforms, and provides the same capability as the APS-133. The effort also replaces the current core processing module (CPM) cards in the CMC with new Honeywell CPM II cards, providing additional processing speed and throughput capacity.

The CMC/WxRadar program is the baseline for all future modifications to the C-5M. The modification helps to maintain aircraft availability as the current APS-133 WxRadar and current CPM cards are both facing severe diminishing manufacturing source (DMS) issues. Available funds will be used for program support, studies and analysis, risk reduction efforts, Advisory and Assistance Services, change orders, and other government costs such as travel, directorate support, government furnished equipment (GFE), and over and above costs. Funding may also be used to address Diminishing Manufacturing Sources (DMS) through studies and analysis, bridge buys, life-of-type buys, etc.

There are a total of eight (8) trainers to be updated; six (6) weapon systems trainers (WST) and two (2) aircrew maintenance system trainers (AMST).

The Production strategy awarded a competitive contract for the kitting of Group A components (wiring, harnesses, brackets, etc.) and awarded sole-source contracts for the Group B components such as Core Mission Computer (CMC) Versatile Integrated Avionics (VIAs) and Avionics Interface Units (AIUs), Radar components, etc. The current modification install strategy is to have the modification accomplished at a contractor facility.

The kits appear to be purchased early to need due to a change in implementation strategy. The installation method was changed from programmed depot maintenance (PDM) to contractor due to throughput issues at the depot.

Prior year funds in the amount of \$5.608M was awarded to the contractor to install the first 10 installations. This accounts for the per unit installation cost variance.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

Milestone/Development Status

Development complete

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.673	9.667	6.199	-	6.199	7.365	7.169	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.800	2.177	1.705	-	1.705	3.369	2.023	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	10.473	11.844	7.904	0.000	7.904	10.734	9.192	0.000	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3					P-1 Line Item Number / Title: C00500 / C-5					Modification Number / Title: 8967 / Mission Computer and Weather Radar			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: C-5M				Modification Type: Other				Related RDT&E PEs: 0401119F					
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)	
RDT&E PE #													
0401119F	2 / 97.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 97.080	
Procurement													
Modification Item 1 of 1: CMC/WxRadar													
A Kits													
Recurring													
CMC/WxRadar:INSTALL KITS Group A (Active)	32 / 3.867	2 / 0.319	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 4.186	
CMC/WxRadar:INSTALL KITS Group A (Reserve)	15 / 1.775	1 / 0.159	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.934	
Subtotal: Recurring	- / 5.642	- / 0.478	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.120	
B Kits													
Recurring													
CMC/WxRadar:EQUIPMENT Group B (Active)	32 / 19.725	2 / 1.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 21.005	
CMC/WxRadar:EQUIPMENT Group B (Reserve)	15 / 9.181	1 / 0.641	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 9.822	
Subtotal: Recurring	- / 28.906	- / 1.921	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 30.827	
Subtotal: CMC/WxRadar	- / 34.548	- / 2.399	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 36.947	
Subtotal: Procurement, All Modification Items	- / 34.548	- / 2.399	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 36.947	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 0.434	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.434	
Mod of Spares	- / 14.629	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.629	
SIM/TRAINER	6 / 12.229	2 / 6.687	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 18.916	
SUPPORT-EQUIP	- / 0.834	- / -	- / 1.454	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.288	
PMA - Other Gov't Costs	- / 2.225	- / -	- / -	- / 10.787	- / -	- / 10.787	- / 11.100	- / 3.259	- / -	- / -	- / -	- / 17.371	
PMA - Contractor Services	- / 4.371	- / -	- / 3.609	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.980	
A&AS	- / 15.496	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.496	
OTHER GOVT	- / -	- / 0.705	- / 0.250	- / 10.297	- / -	- / 10.297	- / 10.875	- / 10.539	- / -	- / -	- / -	- / 22.666	
ICS-Material	- / 10.093	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.093	
ICS-Labor	- / 0.373	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.373	
Subtotal: Support	6 / 40.684	2 / 7.392	- / 5.313	- / 11.084	- / -	- / 11.084	- / 11.975	- / 3.798	- / -	- / -	- / -	8 / 60.246	
Installation													
Modification Item 1 of 1: CMC/WxRadar	0 / 5.608	2 / 0.682	15 / 6.531	12 / 6.820	- / -	12 / 6.820	13 / 8.759	8 / 5.394	- / -	- / -	- / -	50 / 33.794	
Subtotal: Installation	- / 5.608	2 / 0.682	15 / 6.531	12 / 6.820	- / -	12 / 6.820	13 / 8.759	8 / 5.394	- / -	- / -	- / -	50 / 33.794	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: C-5M	Modification Type: Other	Related RDT&E PEs: 0401119F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total												
Total Cost (Procurement + Support + Installation)	80.840	10.473	11.844	7.904	0.000	7.904	10.734	9.192	0.000	-	-	130.987

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: CMC/WxRadar

Manufacturer Information

Manufacturer Name: Gauss management Research and Engineering, Inc	Manufacturer Location: Ogden, UT
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 15

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

Installation Information

Method of Implementation: Contractor Facility

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 / 5.608	2 / 0.682	15 / 6.531	12 / 6.820	- / -	12 / 6.820	13 / 8.759	5 / 3.371	- / -	- / -	- / -	47 / 31.771
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.023	- / -	- / -	- / -	3 / 2.023
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 5.608	2 / 0.682	15 / 6.531	12 / 6.820	- / -	12 / 6.820	13 / 8.759	8 / 5.394	- / -	- / -	- / -	50 / 33.794

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	0	-	-	1	1	3	4	4	4	2	4	3	3	4	2	4	3	3	4	1	-	-	-	-	-	-	-	-	-	0	50
Out	0	-	-	-	2	2	3	4	4	3	3	4	2	4	3	3	4	3	3	3	-	-	-	-	-	-	-	-	-	0	50

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8978 / Distributed Mission Operations (DMO) and Mobility Air Force (MAF) Training

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	12.354	0.000	12.354	0.000	0.000	0.000	0.000	-	12.354
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	12.354	0.000	12.354	0.000	0.000	0.000	0.000	-	12.354
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	12.354	0.000	12.354	0.000	0.000	0.000	0.000	-	12.354

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 8978, Distributed Mission Operations (DMO) and Mobility Air Force (MAF) Training, is a new start. The FY23 funding requested on this line item supports modifications for Other Aircraft, P-1 line #64. Due to a database error, the funding was aligned to this C-5 modifications line item. The Air Force intended to budget for this funding in P-1 line #64.

Mobility Air Forces (MAF) Training supports the modification and enhancement of high fidelity MAF aircrew training and support systems to meet combat readiness needs. Modifications include, but are not limited to, efforts to ensure full employment of Distributed Mission Operations (DMO) capabilities and related support. Use of enhanced, DMO-capable trainers provides a cost effective means of conducting daily training, mission rehearsal, joint force exercises, tactics development activity, and Virtual Aerial Refueling. This makes aircraft that would otherwise be used for training available to war fighting commanders to conduct combat operations. Funding establishes DMO capability for MAF DMO to include modifications to MAF platform training systems and networks.

FY 2023 funding includes, but is not limited to, modification of software and hardware on six (6) C-130J training systems to enhance DMO capabilities. Modification increases training fidelity and improves real-time inter-flying with other simulators. DMO improves the C-130J training enterprise, allowing aircrews to fly virtual missions to train on critical combat skills, such as threat avoidance and formation training.

Diminishing Manufacturing Source efforts include removal of end-of life software/hardware within simulators systems and move to a modular, common open system architecture that is sustainable and cyber-resilient. Implementation requirements and standards are defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative.

Milestone/Development Status

Development is complete.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	12.354	-	12.354	-	-	-	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8978 / Distributed Mission Operations (DMO) and Mobility Air Force (MAF) Training

ID Code (A=Service Ready, B=Not Service Ready) : B **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
Secondary Distribution	Total Obligation Authority	0.000	0.000	12.354	0.000	12.354	0.000	0.000	0.000	0.000

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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8978 / Distributed Mission Operations (DMO) and Mobility Air Force (MAF) Training

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: C-5M	Modification Type: Capability Improvement	Related RDT&E PEs: 0401897F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> WST Trainer												
B Kits												
Recurring												
WST Trainer:EQUIPMENT Group B (Active)	- / -	- / -	- / -	2 / 12.354	- / -	2 / 12.354	- / -	- / -	- / -	- / -	- / -	2 / 12.354
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 12.354	- / -	- / 12.354	- / -	- / -	- / -	- / -	- / -	- / 12.354
<i>Subtotal: WST Trainer</i>	- / -	- / -	- / -	- / 12.354	- / -	- / 12.354	- / -	- / -	- / -	- / -	- / -	- / 12.354
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 12.354	- / -	- / 12.354	- / -	- / -	- / -	- / -	- / -	- / 12.354
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	12.354	0.000	12.354	0.000	0.000	0.000	0.000	-	12.354

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3			P-1 Line Item Number / Title: C00500 / C-5			Modification Number / Title: 8978 / Distributed Mission Operations (DMO) and Mobility Air Force (MAF) Training		
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:			
Modification Item 1 of 1: WST Trainer								
Manufacturer Information								
Manufacturer Name: TBD				Manufacturer Location: TBD				
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 12				
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	
Contract Dates			Dec 2022					
Delivery Dates			Dec 2023					
Installation Information								
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 2			

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8979 / Maintenance Training Simulator

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	18.000	0.000	18.000	0.000	0.000	0.000	0.000	-	18.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	18.000	0.000	18.000	0.000	0.000	0.000	0.000	-	18.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	18.000	0.000	18.000	0.000	0.000	0.000	0.000	-	18.000

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 8979, Maintenance Training Simulator, is a new start.

The FY23 funding requested on this line item is for C-5 post-production support. Due to a database error, the funding was aligned to this C-5 modifications line item. The Air Force intended to budget for this funding in a new P-1 line item for C-5 post-production support in budget activity 07, budget sub-activity 2.

C-5 Fuselage Trainer (FuT) - The purpose of this effort is to procure and install a FuT at Lackland AFB, TX. The FuT is a simulator device that facilitates C-5 Loadmaster Initial Qualification training by duplicating ground aircraft capabilities and syllabus-driven requirements, thus producing qualified crewmembers.

Fuselage Trainer-based training events provide improved training standardization, increased event frequency, and reduced aircraft utilization. FuT acquisition/usage will reduce C-5 ground aircraft utilization by 2331 hours annually. This, in turn, will lead to increased aircraft availability for other FTU training syllabi and the operational squadron's support of AMC's Rapid Global Mobility mission.

Funding for this exhibit is contained in PE 0401897F.

Milestone/Development Status

Development is complete.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	18.000	-	18.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	18.000	0.000	18.000	0.000	0.000	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3				P-1 Line Item Number / Title: C00500 / C-5				Modification Number / Title: 8979 / Maintenance Training Simulator				
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Models of Systems Affected: C-5M				Modification Type: Capability Improvement				Related RDT&E PEs: 0401897F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: Trainer (Simulator Device)</i>												
B Kits												
Recurring												
Trainer (Simulator Device);EQUIPMENT Group B (Active)	- / -	- / -	- / -	1 / 18.000	- / -	1 / 18.000	- / -	- / -	- / -	- / -	- / -	1 / 18.000
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 18.000	- / -	- / 18.000	- / -	- / -	- / -	- / -	- / -	- / 18.000
<i>Subtotal: Trainer (Simulator Device)</i>	- / -	- / -	- / -	- / 18.000	- / -	- / 18.000	- / -	- / -	- / -	- / -	- / -	- / 18.000
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 18.000	- / -	- / 18.000	- / -	- / -	- / -	- / -	- / -	- / 18.000
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	18.000	0.000	18.000	0.000	0.000	0.000	0.000	-	18.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3			P-1 Line Item Number / Title: C00500 / C-5			Modification Number / Title: 8979 / Maintenance Training Simulator		
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:			
Modification Item 1 of 1: Trainer (Simulator Device)								
Manufacturer Information								
Manufacturer Name: TBD				Manufacturer Location: TBD				
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 12				
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	
Contract Dates			Dec 2022					
Delivery Dates			Dec 2023					
Installation Information								
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 1			

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C01700 / C-17A
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401130F	Other Related Program Elements: 0401130F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	430.487	44.798	54.649	152.009	-	152.009	141.563	90.318	123.135	144.831	2.338	1,184.128
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	430.487	44.798	54.649	152.009	-	152.009	141.563	90.318	123.135	144.831	2.338	1,184.128
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	430.487	44.798	54.649	152.009	-	152.009	141.563	90.318	123.135	144.831	2.338	1,184.128

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the C-17 aircraft and Training Systems. The United States Air Force (USAF) C-17 inventory is 222 aircraft. The four-engine C-17 is the only aircraft capable of routine delivery of outsize cargo (tanks, helicopters, etc.) to short, austere airfields. The aircraft can carry up to 102 troops, 36 litter patients or 18 standard 463-L pallets.

This funding includes Rapid Global Mobility platform-related rapid prototyping and fielding activities executed under the authority of National Defense Authorization Act 2016, Section 804, as amended. Such activities include, but are not limited to roll-on/roll-off, carry-on/carry-off, pod-based, aircraft-integrated support equipment, and other technical solutions supporting the full spectrum of the platform's Rapid Global Mobility missions.

Funding may also be used to address Diminishing Manufacturing Sources (DMS) issues, obsolescence resolution, fuel efficiency & drag reduction improvements, cockpit situational awareness, command and control (radios), flight deck modernization/upgrades, aircraft data bus maintenance initiatives, and structural enhancements.

In accordance with Section 1815 of the FY08 National Defense Authorization Act (P.L.110-181), these items are 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.

Funding for this exhibit is contained in PE 0401130F and 0401897F.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	37.206	40.420	114.615	-	114.615	99.444	70.254	94.153
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.934	7.706	26.244	-	26.244	29.652	13.128	19.261
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.658	6.523	11.150	-	11.150	12.467	6.936	9.721

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force							Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft					P-1 Line Item Number / Title: C01700 / C-17A				
ID Code (A=Service Ready, B=Not Service Ready): B			Program Elements for Code B Items: 0401130F			Other Related Program Elements: 0401130F			
Line Item MDAP/MAIS Code: N/A									

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	44.798	54.649	152.009	-	152.009	141.563	90.318	123.135	144.831

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C01700 / C-17A

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0401130F **Other Related Program Elements:** 0401130F

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-40a***	_2000 / Pylon Stub FFLZ, FF, Translating Fairing (Safety)				- / 94.544	- / 0.948	- / 0.627	- / -	- / -	- / -
P-40a***	_2590 / ELT Frequency Change (Capability Improvement)				- / 5.182	- / -	- / -	- / -	- / -	- / -
P-40a***	_2633 / MFOQA (Capability Improvement)				- / 14.070	- / -	- / -	- / -	- / -	- / -
P-40a***	1508 / IFF GATM (Capability Improvement)				- / 124.543	- / 0.050	- / -	- / -	- / -	- / -
P-40a***	2901 / Automatic Dependent Surveillance - Broadcast Out (ADS-B Out) (Capability Improvement)				- / 83.887	- / -	- / -	- / -	- / -	- / -
P-40a***	6403 / Filter Fire Mitigation (Capability Improvement)				- / 1.870	- / -	- / 1.780	- / 2.340	- / -	- / 2.340
P-40a***	9740 / Fixed Installation Satellite Antenna (FISA) (Capability Improvement)				- / 7.079	- / 0.000	- / -	- / -	- / -	- / -
P-40a***	9742 / C-17 Simulator Lateral Motion Maneuver Enhancement (Other)				- / 1.438	- / -	- / -	- / -	- / -	- / -
P-40a***	9744 / C-17 Visual System Field of View (Other)				- / 1.008	- / -	- / -	- / -	- / -	- / -
P-40a***	9747 / C-17 Training System (Other Mods) (Other)				- / 4.599	- / 7.728	- / 9.585	- / 2.980	- / -	- / 2.980
P-40a***	9748 / C-17 Training System (Training Mods) (Other)				- / -	- / -	- / -	- / 9.112	- / -	- / 9.112
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 3.246	- / 0.141	- / 2.000	- / 0.100	- / -	- / 0.100
P-3a	3080 / Replacement Heads Up Display (RHUD) (Capability Improvement)		B		- / 84.919	- / 34.564	- / 32.903	- / 47.111	- / 0.000	- / 47.111
P-3a	9741 / Beyond Line of Sight (BLOS) (Capability Improvement)		B		- / 4.102	- / 1.367	- / 7.754	- / 90.366	- / 0.000	- / 90.366
P-40	Total Gross/Weapon System Cost				- / 430.487	- / 44.798	- / 54.649	- / 152.009	- / -	- / 152.009

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-40a***	_2000 / Pylon Stub FFLZ, FF, Translating Fairing (Safety)				- / -	- / -	- / -	- / -	- / -	- / 96.119
P-40a***	_2590 / ELT Frequency Change (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 5.182
P-40a***	_2633 / MFOQA (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 14.070
P-40a***	1508 / IFF GATM (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 124.593
P-40a***	2901 / Automatic Dependent Surveillance - Broadcast Out (ADS-B Out) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 83.887
P-40a***	6403 / Filter Fire Mitigation (Capability Improvement)				- / 2.580	- / 2.110	- / 2.620	- / 2.140	- / 0.338	- / 15.778
P-40a***	9740 / Fixed Installation Satellite Antenna (FISA) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 7.079
P-40a***	9742 / C-17 Simulator Lateral Motion Maneuver Enhancement (Other)				- / -	- / -	- / -	- / -	- / -	- / 1.438
P-40a***	9744 / C-17 Visual System Field of View (Other)				- / -	- / -	- / -	- / -	- / -	- / 1.008
P-40a***	9747 / C-17 Training System (Other Mods) (Other)				- / 1.180	- / 2.020	- / 1.909	- / 2.660	- / -	- / 32.661
P-40a***	9748 / C-17 Training System (Training Mods) (Other)				- / -	- / -	- / -	- / -	- / -	- / 9.112
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 0.100	- / 0.100	- / 0.100	- / 0.001	- / -	- / 5.788

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force				Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft			P-1 Line Item Number / Title: C01700 / C-17A		
ID Code (A=Service Ready, B=Not Service Ready): B		Program Elements for Code B Items: 0401130F		Other Related Program Elements: 0401130F	
Line Item MDAP/MAIS Code: N/A					

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	3080 / Replacement Heads Up Display (RHUD) (Capability Improvement)		B		- / 38.072	- / 41.100	- / 10.953	- / 8.945	- / 2.000	- / 300.567
P-3a	9741 / Beyond Line of Sight (BLOS) (Capability Improvement)		B		- / 99.631	- / 44.988	- / 107.553	- / 131.085	- / 0.000	- / 486.846
P-40	Total Gross/Weapon System Cost				- / 141.563	- / 90.318	- / 123.135	- / 144.831	- / 2.338	- / 1,184.128

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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:

Major C-17 modifications in FY 2023 include: Replacement Heads Up Display (RHUD), Beyond Line of Sight (BLOS), and Training Systems.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 3080 / Replacement Heads Up Display (RHUD)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	84.919	34.564	32.903	47.111	0.000	47.111	38.072	41.100	10.953	8.945	2.000	300.567
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	84.919	34.564	32.903	47.111	0.000	47.111	38.072	41.100	10.953	8.945	2.000	300.567
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	84.919	34.564	32.903	47.111	0.000	47.111	38.072	41.100	10.953	8.945	2.000	300.567

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This modification effort is an ACAT III program for modernization of the C-17 on the Air Force Acquisition Master List (AML). This effort is for development, integration and installation of a Replacement Heads-Up Display (RHUD) onto the C-17 aircraft. Analysis indicates the current HUD, which is required to fly the C-17, is becoming unsupportable due to obsolescence. This effort will retrofit the C-17 fleet with an RHUD that is certified as a Primary Flight Reference, providing improved reliability, maintainability, and supportability, while providing growth to support future planned capability improvements. The total of 222 units will be sustainable for the planned life of the C-17 fleet. The RHUD retrofit will start and complete installs from FY 2021 through FY 2028 under the legacy Globemaster III Integrated Sustainment Program (GISP) and the current G3 contracts.

Projected allocations by component are subject to total force mission priorities and aircraft availability.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Milestone/Development Status

The first RHUD was tested with RDT&E funding in FY 2018. The first production kitproof kits were purchased in FY 2019 and installed in FY 2021.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	27.920	23.015	36.175	-	36.175	26.903	29.924	8.189	4.799
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.986	5.222	8.499	-	8.499	8.693	7.068	2.304	3.224
AFR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.658	4.666	2.437	-	2.437	2.476	4.108	0.460	0.922
Total:									
Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 3080 / Replacement Heads Up Display (RHUD)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	34.564	32.903	47.111	0.000	47.111	38.072	41.100	10.953	8.945

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3					P-1 Line Item Number / Title: C01700 / C-17A					Modification Number / Title: 3080 / Replacement Heads Up Display (RHUD)				
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:							
Models of Systems Affected: C-17				Modification Type: Capability Improvement				Related RDT&E PEs: 0401130F						
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)		
RDT&E PE #														
0401130F	- / 117.210	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 117.210		
Procurement														
<i>Modification Item 1 of 1:</i> RHUD														
A Kits														
Recurring														
RHUD:INSTALL KITS Group A (Active)	60 / 49.212	20 / 13.288	17 / 10.608	24 / 15.425	- / -	24 / 15.425	18 / 11.916	7 / 4.773	- / -	- / -	- / -	146 / 105.222		
RHUD:INSTALL KITS Group A (Guard)	8 / 5.568	6 / 3.986	8 / 4.992	10 / 6.427	- / -	10 / 6.427	10 / 6.620	8 / 5.455	- / -	- / -	- / -	50 / 33.048		
RHUD:INSTALL KITS Group A (Reserve)	8 / 5.568	4 / 2.658	6 / 3.744	2 / 1.285	- / -	2 / 1.285	2 / 1.324	4 / 2.727	- / -	- / -	- / -	26 / 17.306		
<i>Subtotal: Recurring</i>	- / 60.348	- / 19.932	- / 19.344	- / 23.137	- / -	- / 23.137	- / 19.860	- / 12.955	- / -	- / -	- / -	- / 155.576		
<i>Subtotal: RHUD</i>	- / 60.348	- / 19.932	- / 19.344	- / 23.137	- / -	- / 23.137	- / 19.860	- / 12.955	- / -	- / -	- / -	- / 155.576		
<i>Subtotal: Procurement, All Modification Items</i>	- / 60.348	- / 19.932	- / 19.344	- / 23.137	- / -	- / 23.137	- / 19.860	- / 12.955	- / -	- / -	- / -	- / 155.576		
Support (All Modification Items)														
SUPPORT-EQUIP	- / -	- / 4.927	- / 0.654	- / 10.560	- / -	- / 10.560	- / 4.318	- / 14.563	- / 0.690	- / -	- / -	- / 35.712		
SIM/TRAINER	- / 4.614	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.614		
PMA - Other Gov't Costs	- / 19.957	- / 4.855	- / 5.535	- / 5.352	- / -	- / 5.352	- / 5.601	- / 5.290	- / 1.971	- / 1.805	- / 2.000	- / 52.366		
<i>Subtotal: Support</i>	- / 24.571	- / 9.782	- / 6.189	- / 15.912	- / -	- / 15.912	- / 9.919	- / 19.853	- / 2.661	- / 1.805	- / 2.000	- / 92.692		
Installation														
<i>Modification Item 1 of 1:</i> RHUD	- / -	16 / 4.850	32 / 7.370	35 / 8.062	- / -	35 / 8.062	36 / 8.293	36 / 8.292	36 / 8.292	31 / 7.140	- / -	222 / 52.299		
<i>Subtotal: Installation</i>	- / -	16 / 4.850	32 / 7.370	35 / 8.062	- / -	35 / 8.062	36 / 8.293	36 / 8.292	36 / 8.292	31 / 7.140	- / -	222 / 52.299		
Total														
Total Cost (Procurement + Support + Installation)	84.919	34.564	32.903	47.111	0.000	47.111	38.072	41.100	10.953	8.945	2.000	300.567		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 3080 / Replacement Heads Up Display (RHUD)

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

Manufacturer Information

Manufacturer Name: The Boeing Company	Manufacturer Location: Long Beach, Ca
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 17

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Sep 2021	May 2022	May 2023	May 2024	May 2025		
Delivery Dates	Feb 2023	Oct 2023	Oct 2024	Oct 2025	Oct 2026		

Installation Information

Method of Implementation: Contractor Facility

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	- / -	8 / 3.007	16 / 3.685	15 / 3.455	- / -	15 / 3.455	- / -	- / -	- / -	- / -	- / -	39 / 10.147
FY 2021	- / -	- / -	- / -	4 / 0.921	- / -	4 / 0.921	11 / 2.534	- / -	- / -	- / -	- / -	15 / 3.455
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.382	9 / 2.073	- / -	- / -	- / -	15 / 3.455
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.073	9 / 2.073	- / -	- / -	18 / 4.146
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 1.843	7 / 1.612	- / -	15 / 3.455
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.303	- / -	10 / 2.303
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	8 / 3.007	16 / 3.685	19 / 4.376	- / -	19 / 4.376	17 / 3.916	18 / 4.146	17 / 3.916	17 / 3.915	- / -	112 / 26.961

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	0	-	-	5	3	4	4	4	4	4	5	5	5	5	5	4	3	5	4	4	5	4	5	5	3	5	4	4	4	0	112
Out	0	-	-	-	5	3	4	4	4	4	4	5	5	5	5	5	4	3	5	4	4	5	4	5	5	3	5	4	4	4	112

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 3080 / Replacement Heads Up Display (RHUD)
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

Modification Item 1 of 1: RHUD

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	- / -	8 / 1.843	16 / 3.685	13 / 2.995	- / -	13 / 2.995	- / -	- / -	- / -	- / -	- / -	37 / 8.523
FY 2021	- / -	- / -	- / -	3 / 0.691	- / -	3 / 0.691	12 / 2.765	- / -	- / -	- / -	- / -	15 / 3.456
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.612	9 / 2.073	- / -	- / -	- / -	16 / 3.685
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.073	9 / 2.073	- / -	- / -	18 / 4.146
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.303	5 / 1.152	- / -	15 / 3.455
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.073	- / -	9 / 2.073
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	8 / 1.843	16 / 3.685	16 / 3.686	- / -	16 / 3.686	19 / 4.377	18 / 4.146	19 / 4.376	14 / 3.225	- / -	110 / 25.338

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	0	-	-	4	4	4	4	4	4	4	4	4	4	5	5	5	4	5	4	4	5	5	5	5	4	4	4	4	4	2	0	110
Out	0	-	-	-	4	4	4	4	4	4	4	4	4	4	5	5	5	4	5	4	4	5	5	5	5	4	4	4	4	4	2	110

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 9741 / Beyond Line of Sight (BLOS)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.102	1.367	7.754	90.366	0.000	90.366	99.631	44.988	107.553	131.085	0.000	486.846
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4.102	1.367	7.754	90.366	0.000	90.366	99.631	44.988	107.553	131.085	0.000	486.846
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.102	1.367	7.754	90.366	0.000	90.366	99.631	44.988	107.553	131.085	0.000	486.846

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This modification effort is an ACAT III program for modernization of the C-17 on the Air Force Acquisition Master List (AML). Beyond Line-Of-Sight (BLOS) modernization modification is a development, integration, and retrofit program for C-17 communications. BLOS modifies and modernizes hardware and software for voice and data communications on the C-17.

The program will modify both integrated aircraft avionics as well as back-end mission communications and will utilize both military and commercial satellite systems to extend communication ranges. The current ACAT III program includes (1) replacement of the hardware/software used for commercial L-Band SATCOM communications utilized for Federal Aviation Administration (FAA) safety services, Controller Pilot Data Link Communications (CPDLC), Future Air Navigation System (FANS-1/A), Automatic Dependent Surveillance - Contract (ADS-C)), (2) modernization of ARC-210 radio to meet NSA cryptologic mandates and integrate new waveforms (Mobile User Objective System (MUOS), Second generation Anti-jam Tactical UHF Radio for NATO (SATURN), Integrated Waveform (IW)), and (3) modernization of the C-17 HF encryption device used for secure HF communications (KYV-5 replaced with KYV-5M).

The BLOS program includes support for program management, system engineering, on-going flight test, and software labs.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. Project allocations by component are subject to total force mission priorities and aircraft availability.

Kits procured in June 2021 to be delivered in May 2023.

Funds prior to FY 2022 procured component level long lead items. Full kit procurement begins in FY 2022.

BLOS has an FAA mandate for Aero H of 31 Dec 2022 and Aero I of 31 Dec 2023.
BLOS has a Comm/Crypto NSA classified mandate.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Milestone/Development Status

Program Critical Design Review (CDR) complete Mar 2021.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 9741 / Beyond Line of Sight (BLOS)
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ID Code (A=Service Ready, B=Not Service Ready) : B **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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.367	4.040	63.908	-	63.908	68.681	36.100	82.857	119.723
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.857	17.745	-	17.745	20.959	6.060	15.435	7.429
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.857	8.713	-	8.713	9.991	2.828	9.261	3.933
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.367	7.754	90.366	0.000	90.366	99.631	44.988	107.553	131.085

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3					P-1 Line Item Number / Title: C01700 / C-17A					Modification Number / Title: 9741 / Beyond Line of Sight (BLOS)			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: C-17				Modification Type: Capability Improvement				Related RDT&E PEs: 0401130F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: BLOS</i>													
B Kits													
Recurring													
BLOS:EQUIPMENT Group B (Active)	3 / 4.102	2 / 1.367	2 / 1.857	46 / 54.522	- / -	46 / 54.522	48 / 46.896	2 / 2.006	45 / 46.305	- / -	- / -	148 / 157.055	
BLOS:EQUIPMENT Group B (Guard)	- / -	- / -	2 / 1.857	16 / 16.976	- / -	16 / 16.976	15 / 14.655	- / -	15 / 15.435	- / -	- / -	48 / 48.923	
BLOS:EQUIPMENT Group B (Reserve)	- / -	- / -	2 / 1.857	8 / 7.944	- / -	8 / 7.944	7 / 6.839	- / -	9 / 9.261	- / -	- / -	26 / 25.901	
<i>Subtotal: Recurring</i>	- / 4.102	- / 1.367	- / 5.571	- / 79.442	- / -	- / 79.442	- / 68.390	- / 2.006	- / 71.001	- / -	- / -	- / 231.879	
<i>Subtotal: BLOS</i>	- / 4.102	- / 1.367	- / 5.571	- / 79.442	- / -	- / 79.442	- / 68.390	- / 2.006	- / 71.001	- / -	- / -	- / 231.879	
<i>Subtotal: Procurement, All Modification Items</i>	- / 4.102	- / 1.367	- / 5.571	- / 79.442	- / -	- / 79.442	- / 68.390	- / 2.006	- / 71.001	- / -	- / -	- / 231.879	
Support (All Modification Items)													
PSC - Contractor Services	- / -	- / -	- / 1.004	- / 14.000	- / -	- / 14.000	- / 3.661	- / 4.000	- / 8.000	- / 10.045	- / -	- / 30.710	
SUPPORT-EQUIP	- / -	- / -	- / 0.411	- / 13.465	- / -	- / 13.465	- / -	- / -	- / 27.700	- / 90.887	- / -	- / 122.463	
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.702	- / -	- / -	- / -	- / 10.702	
<i>Subtotal: Support</i>	- / -	- / -	- / 1.415	- / 17.465	- / -	- / 17.465	- / 3.661	- / 14.702	- / 35.700	- / 100.932	- / -	- / 163.875	
Installation													
<i>Modification Item 1 of 1: BLOS</i>	- / -	- / -	2 / 0.768	9 / 3.459	- / -	9 / 3.459	70 / 27.580	70 / 28.280	2 / 0.852	69 / 30.153	- / -	222 / 91.092	
<i>Subtotal: Installation</i>	- / -	- / -	2 / 0.768	9 / 3.459	- / -	9 / 3.459	70 / 27.580	70 / 28.280	2 / 0.852	69 / 30.153	- / -	222 / 91.092	
Total													
Total Cost (Procurement + Support + Installation)	4.102	1.367	7.754	90.366	0.000	90.366	99.631	44.988	107.553	131.085	0.000	486.846	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 9741 / Beyond Line of Sight (BLOS)
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: BLOS

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Long Beach, CA
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 12

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	Jun 2025	Jun 2026	
Delivery Dates	Jun 2022	Jun 2023	Jun 2024	Jun 2025	Jun 2026	Jun 2027	

Installation Information

Method of Implementation: Contractor Facility

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 / 0.768	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.768
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	- / -	- / -	- / -	- / -	0 / 0.000
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	35 / 13.790	- / -	- / -	- / -	- / -	35 / 13.790
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 14.140	- / -	- / -	- / -	35 / 14.140
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.852	- / -	- / -	2 / 0.852
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 16.169	- / -	37 / 16.169
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 0.768	- / -	- / -	- / -	35 / 13.790	35 / 14.140	2 / 0.852	37 / 16.169	- / -	111 / 45.719

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	0	-	-	-	-	-	2	-	-	-	-	-	-	-	23	8	4	-	24	8	3	-	2	-	-	-	22	9	6	0	111
Out	0	-	-	-	-	-	-	2	-	-	-	-	-	-	23	8	4	-	24	8	3	-	2	-	-	-	-	22	9	6	111

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 / 0.384	- / -	1 / 0.384	- / -	- / -	- / -	- / -	- / -	1 / 0.384

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 9741 / Beyond Line of Sight (BLOS)
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

Modification Item 1 of 1: BLOS

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)
FY 2021	- / -	- / -	- / -	2 / 0.768	- / -	2 / 0.768	- / -	- / -	- / -	- / -	- / -	2 / 0.768
FY 2022	- / -	- / -	- / -	6 / 2.307	- / -	6 / 2.307	- / -	- / -	- / -	- / -	- / -	6 / 2.307
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	35 / 13.790	- / -	- / -	- / -	- / -	35 / 13.790
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 14.140	- / -	- / -	- / -	35 / 14.140
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 13.984	- / -	32 / 13.984
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	9 / 3.459	- / -	9 / 3.459	35 / 13.790	35 / 14.140	- / -	32 / 13.984	- / -	111 / 45.373

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	0	-	-	-	-	-	-	-	-	-	-	9	-	-	23	8	4	-	24	8	3	-	-	-	-	-	21	8	3	0	111
Out	0	-	-	-	-	-	-	-	-	-	-	-	9	-	-	23	8	4	-	24	8	3	-	-	-	-	-	21	8	3	111

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C03200 / C-32A
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0504314F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	240.848	2.947	1.949	4.068	-	4.068	0.010	0.010	0.010	0.010	-	249.852
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	240.848	2.947	1.949	4.068	-	4.068	0.010	0.010	0.010	0.010	-	249.852
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	240.848	2.947	1.949	4.068	-	4.068	0.010	0.010	0.010	0.010	-	249.852

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds all aircraft modifications for four (4) C-32A aircraft, a commercial derivative of the Boeing 757-200. The C-32A is a twin-engine, turboprop aircraft used to transport high-ranking United States government officials worldwide. The C-32 is expected to be in service until 2040, with an average of 17 years of service remaining. This funding may include emerging modification requirements to support Program Support Costs (PCS), Advisory and Assistance Services (A&AS), systems integration lab, trainers, equipment, other government costs, and Senior Leader Communications System modernization efforts.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration certification while improving flight safety, reliability, and maintainability of the C-32 fleet.

Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

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

This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Funding for this exhibit is contained in PE 0401314F and 0504314F.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.009	0.010	2.033	-	2.033	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.938	1.939	2.035	-	2.035	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C03200 / C-32A
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0504314F
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	2.947	1.949	4.068	-	4.068	-	-	-	-

Justification:
 FY23: Funding requested for Low Cost Modifications and FAA required Service Bulletins.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C03700 / C-37A

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0401314F **Other Related Program Elements:** 0401314F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	18.404	12.985	5.984	6.062	-	6.062	0.000	0.000	0.000	0.000	-	43.435
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	18.404	12.985	5.984	6.062	-	6.062	0.000	0.000	0.000	0.000	-	43.435
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	18.404	12.985	5.984	6.062	-	6.062	0.000	0.000	0.000	0.000	-	43.435

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	0.546	0.364	-	0.364	-	-	-	-	-	0.910
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to nine (9) C-37A and seven (7) C-37B aircraft, equivalent to commercial Gulfstream 5 and Gulfstream 550 aircraft. The C-37A/B is a twin-engine jet transport designed to transport high-ranking United States government officials worldwide. The designed service life for C-37B is 40,000 hours (average of 35,500 hours remaining). The designed service life for C-37A is 30,000 hours (average of 16,200 hours remaining). As the fleet nears the service life limits, additional evaluations are made for continued service.

This funding may include, but is not limited to, emerging modification requirements to support Program Support Costs (PCS), Advisory & Assistance Services (A&AS), systems integration lab, trainers, equipment, other government costs, and Senior Leader Communications System modernization efforts.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration (FAA) certification while improving flight safety, reliability, and maintainability.

Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

Funding for this exhibit is contained in PE 0401314F.

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C03700 / C-37A

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0401314F **Other Related Program Elements:** 0401314F

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-40a***	1117 / WIDEBAND SATCOM (Capability Improvement)				- / -	- / 12.985	- / -	- / -	- / -	- / -
P-40a***	1118 / CNS/ATM Compliance (Capability Improvement)				- / 17.606	- / -	- / -	- / -	- / -	- / -
P-40a***	1122 / SAT 906 (Capability Improvement)				- / -	- / -	- / 5.984	- / 4.320	- / -	- / 4.320
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)				- / 0.100	- / -	- / -	- / 1.000	- / -	- / 1.000
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 0.698	- / -	- / -	- / 0.742	- / -	- / 0.742
P-40	Total Gross/Weapon System Cost				- / 18.404	- / 12.985	- / 5.984	- / 6.062	- / -	- / 6.062

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-40a***	1117 / WIDEBAND SATCOM (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 12.985
P-40a***	1118 / CNS/ATM Compliance (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 17.606
P-40a***	1122 / SAT 906 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 10.304
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 1.100
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 1.440
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 43.435

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod 99999S, SERVICE BULLETINS, is a new start.
 This program, P-3A Mod 99999X, Low Cost Modifications, is a new start.

FY23: Eight (8) C-37 aircraft will receive MCS 7120 modifications to replace SAT 906.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft	P-1 Line Item Number / Title: GLID00 / Glider Mods
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0804748F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5.135	1.172	0.142	0.149	-	0.149	0.255	0.155	0.158	0.161	-	7.327
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5.135	1.172	0.142	0.149	-	0.149	0.255	0.155	0.158	0.161	-	7.327
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5.135	1.172	0.142	0.149	-	0.149	0.255	0.155	0.158	0.161	-	7.327

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the TG-15 and TG-16 gliders, T-41, T-51, T-53 and UV-18 aircraft used at the United States Air Force Academy. Among gliders there are two TG-15A aircraft with a design service life of 6,000 hours, three TG-15B aircraft with a design service life of 6,000 hours, and 18 TG-16A aircraft with a design service life of 12,000 hours. Powered flight consists of four T-41D aircraft with a design service life of 60,000 hours, three T-51A aircraft with a design service life of 60,000 hours and 24 T-53A aircraft with a design service life of 12,000 hours. To support parachute jumping there are three UV-18B aircraft with a design service life of 40,000 hours. The primary effort in FY23 is Low Cost Modifications, which includes T-41 & T-51 avionics modification, T-53 performance enhancement, UV-18B spare engines, FAA Service Bulletins, Air Worthiness Directives, Program Support Costs, and studies.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Funding for this exhibit contained in PE 0804748F.

Justification:

Funding is required to ensure airworthiness of U.S. Air Force Academy aircraft and for low-cost modifications to extend service life, improve performance, and modernize the weapon systems.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft	P-1 Line Item Number / Title: JPAT00 / T-6
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0604233F, 0804740F	Other Related Program Elements: 0604233F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	138.677	9.334	8.735	6.215	-	6.215	3.250	156.603	413.577	145.743	361.858	1,243.992
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	138.677	9.334	8.735	6.215	-	6.215	3.250	156.603	413.577	145.743	361.858	1,243.992
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	138.677	9.334	8.735	6.215	-	6.215	3.250	156.603	413.577	145.743	361.858	1,243.992

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	11.047	10.280	10.547	-	31.874
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Joint Primary Aircraft Training System (JPATS) T-6 replaces the USAF T-37B and USN T-34C training aircraft and their associated ground based training systems. The JPATS T-6 aircraft provides significant improvements over the aircraft it replaced, including a 0/0 ejection seat which accommodates a larger anthropometric pilot population, a pressurized cockpit, gravitational-force (g-force) strain reduction capabilities, and increased birdstrike protection. There are currently 443 USAF T-6A aircraft [442 AETC A/C; one (1) USAF Owned, OEM Test A/C] in the inventory. Remaining service life is up to 39 years from the final delivery in May 2010. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Funding contained in this platform's documentation directly aids Air Education Training Command (AETC) flying training enterprise to continue its overall pilot production increase starting in FY 2021 thus reducing the USAF Pilot Shortage.

Funding for this exhibit contained in PE 0804740F.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft

P-1 Line Item Number / Title:
JPAT00 / T-6

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0604233F, 0804740F **Other Related Program Elements:** 0604233F

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-40a***	9873 / Canopy Fracture Initiation System (Reliability & Maintainability)				- / 1.666	- / 0.103	- / -	- / -	- / -	- / -
P-40a***	9877 / Avionics Upgrades FAA Compliance (Reliability & Maintainability)				- / 43.059	- / 2.496	- / 0.203	- / -	- / -	- / -
P-40a***	9878 / Aircrew Training Device (ATD) Modernization (Capability Improvement)				- / 37.842	- / 0.039	- / -	- / 0.600	- / -	- / 0.600
P-40a***	9892 / Reliability & Maintainability (R&M) Safety Mods (Safety)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9894 / Avionics Modernization (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9999S / SERVICE BULLETINS (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9999X / Low Cost Modifications (Capability Improvement)				- / 3.545	- / 1.950	- / 3.655	- / -	- / -	- / -
P-3a	9893 / Crew System Modernization Program (Capability Improvement)		B		- / 52.565	- / 4.746	- / 4.877	- / 5.615	- / 0.000	- / 5.615
P-40	Total Gross/Weapon System Cost				- / 138.677	- / 9.334	- / 8.735	- / 6.215	- / -	- / 6.215

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-40a***	9873 / Canopy Fracture Initiation System (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 1.769
P-40a***	9877 / Avionics Upgrades FAA Compliance (Reliability & Maintainability)				- / -	- / 0.000	- / -	- / -	- / -	- / 45.758
P-40a***	9878 / Aircrew Training Device (ATD) Modernization (Capability Improvement)				- / 1.944	- / -	- / -	- / -	- / -	- / 40.425
P-40a***	9892 / Reliability & Maintainability (R&M) Safety Mods (Safety)				- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / 0.500
P-40a***	9894 / Avionics Modernization (Reliability & Maintainability)				- / -	- / 155.303	- / 412.277	- / 144.443	- / 360.358	- / 1,072.381
P-40a***	9999S / SERVICE BULLETINS (Service Life Extension)				- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / 0.300	- / 0.700
P-40a***	9999X / Low Cost Modifications (Capability Improvement)				- / 1.106	- / 1.100	- / 1.100	- / 1.100	- / 1.100	- / 14.656
P-3a	9893 / Crew System Modernization Program (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 67.803
P-40	Total Gross/Weapon System Cost				- / 3.250	- / 156.603	- / 413.577	- / 145.743	- / 361.858	- / 1,243.992

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod 9894, Avionics Modernization, is a new start.

Primary efforts in FY 2023 include P-3A Mod 9894 for Avionics Modernization, T-6A Aircrew Training Device Modernization and Low Cost Modifications. Avionics Modernization is a New Start.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: JPAT00 / T-6	Modification Number / Title: 9893 / Crew System Modernization Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	52.565	4.746	4.877	5.615	0.000	5.615	0.000	0.000	0.000	0.000	0.000	67.803
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	52.565	4.746	4.877	5.615	0.000	5.615	0.000	0.000	0.000	0.000	0.000	67.803
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	52.565	4.746	4.877	5.615	0.000	5.615	0.000	0.000	0.000	0.000	0.000	67.803

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The T-6A Crew System Modernization Program (CSMP) performs comprehensive crew and life support system modernization which replaces aging unreliable equipment and provides aircrew monitoring capability enhancements. Current T-6 crew and life support equipment will not meet the latest emerging crew system requirements. This modification will enable the rapid implementation and fielding of the latest life-support requirements improving the safety and effectiveness of T-6 aircrews. This effort centers around upgrading the on-board oxygen generation system (OBOGS) and its associated components.

Milestone/Development Status

Development/Integration will begin concurrently in FY 2020.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4					P-1 Line Item Number / Title: JPAT00 / T-6					Modification Number / Title: 9893 / Crew System Modernization Program			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: T-6A				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 2: ABOS KIT</i>													
A Kits													
Recurring													
ABOS KIT:INSTALL KITS Group A (Active)	440 / 21.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	440 / 21.200	
<i>Subtotal: Recurring</i>	- / 21.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.200	
<i>Subtotal: ABOS KIT</i>	- / 21.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.200	
<i>Modification Item 2 of 2: CONCENTRATOR KIT</i>													
A Kits													
Recurring													
CONCENTRATOR KIT:INSTALL KITS Group A (Active)	440 / 20.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	440 / 20.300	
<i>Subtotal: Recurring</i>	- / 20.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.300	
<i>Subtotal: CONCENTRATOR KIT</i>	- / 20.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.300	
<i>Subtotal: Procurement, All Modification Items</i>	- / 41.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 41.500	
Support (All Modification Items)													
SIM/TRAINER	- / -	- / -	- / 14.877	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.877	
SUPPORT-EQUIP	- / 11.065	- / 4.746	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.811	
<i>Subtotal: Support</i>	- / 11.065	- / 4.746	- / 4.877	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.688	
Installation													
<i>Modification Item 1 of 2: ABOS KIT</i>	- / -	- / -	- / -	440 / 5.615	- / -	440 / 5.615	- / -	- / -	- / -	- / -	- / -	440 / 5.615	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	440 / 5.615	- / -	440 / 5.615	- / -	- / -	- / -	- / -	- / -	440 / 5.615	
Total													
Total Cost (Procurement + Support + Installation)	52.565	4.746	4.877	5.615	0.000	5.615	0.000	0.000	0.000	0.000	0.000	67.803	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: JPAT00 / T-6	Modification Number / Title: 9893 / Crew System Modernization Program

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 2: ABOS KIT

Manufacturer Information

Manufacturer Name: TEXTRON AVIATION	Manufacturer Location: WICHITA, KS
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: Contract Field Team

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	- / -	- / -	- / -	440 / 5.615	- / -	440 / 5.615	- / -	- / -	- / -	- / -	- / -	440 / 5.615
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	440 / 5.615	- / -	440 / 5.615	- / -	- / -	- / -	- / -	- / -	440 / 5.615

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	0	-	-	-	-	-	-	-	-	120	120	120	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	440
Out	0	-	-	-	-	-	-	-	-	120	120	120	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	440

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4			P-1 Line Item Number / Title: JPAT00 / T-6			Modification Number / Title: 9893 / Crew System Modernization Program	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 2 of 2: CONCENTRATOR KIT							
Manufacturer Information							
Manufacturer Name: COBHAM				Manufacturer Location: DAVENPORT, IA			
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 (Organic): Org/Intermediate					Installation Quantity: 440		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft	P-1 Line Item Number / Title: T00100 / T-1
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0804741F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	94.772	4.465	0.872	6.262	-	6.262	2.092	0.132	0.136	0.139	-	108.870
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	94.772	4.465	0.872	6.262	-	6.262	2.092	0.132	0.136	0.139	-	108.870
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	94.772	4.465	0.872	6.262	-	6.262	2.092	0.132	0.136	0.139	-	108.870

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The T-1A is a missionized Beech 400A used in the Airlift/Tanker track of the USAF Specialized Undergraduate Pilot Training (SUPT) and in Combat Systems Officer (CSO) training for Air Education and Training Command (AETC). It is powered by two Pratt and Whitney JT15D-5 turbofan engines mounted on the aft fuselage producing 2,900 pounds of thrust each. Avionics include Ultra High Frequency (UHF) and Very High Frequency (VHF) radios, Inertial Navigation System (INS), Tactical Air Navigation (TACAN), Airborne Direction Finder (ADF), and two Very High Frequency Omni Range/Instrument Landing System (VOR/ILS). Aircraft modified for CSO training include a Global Positioning System (GPS)-driven synthetic radar and simulated Radar Warning Receiver (RWR) in the right seat flight deck position to be utilized by the student CSO. A second student station and a second instructor station have also been added in the rear of the aircraft. The remaining fiscal years are critical for AETC to execute the AFM-S mission under UPT 2.5.

The primary effort in FY 2023 is the Avionics Modification.

Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues, Program Support Costs, and studies.

This line item funds avionics modifications to the T-1A aircraft and simulators. This effort will install the 73 previously acquired modification kits in to T-1A trainer aircraft, 16 Operational Flight Trainers (OFTs) and deliver 14 Part Task Trainers (PTTs). All 21 CSO training-configured aircraft will receive the modification as well as 52 SUPT aircraft. The remaining 104 T-1A aircraft will not be modified due to the planned divestiture of the aircraft.

USAF plans to maintain 21 CSO training-configured T-1A aircraft. T-1A OFTs and PTTs will continue to be supported and will require modernization software upgrades.

Funding is required to ensure airworthiness of T-1A aircraft, for low cost modifications, maintaining training simulators and to extend the service life of the weapon system.

Funding for this exhibit contained in PE 0804741F.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft

P-1 Line Item Number / Title:
T00100 / T-1

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0804741F **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-40a***	8998 / Crew Relief Station Replacement (Reliability & Maintainability)				- / 0.282	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)				- / 2.969	- / 0.001	- / -	- / 0.100	- / -	- / 0.100
P-3a	8997 / Avionics Modification (Capability Improvement)		A		- / 91.521	- / 4.464	- / 0.872	- / 6.162	- / 0.000	- / 6.162
P-40	Total Gross/Weapon System Cost				- / 94.772	- / 4.465	- / 0.872	- / 6.262	- / -	- / 6.262

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-40a***	8998 / Crew Relief Station Replacement (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 0.282
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)				- / 0.100	- / 0.132	- / 0.136	- / 0.139	- / -	- / 3.577
P-3a	8997 / Avionics Modification (Capability Improvement)		A		- / 1.992	- / 0.000	- / -	- / -	- / -	- / 105.011
P-40	Total Gross/Weapon System Cost				- / 2.092	- / 0.132	- / 0.136	- / 0.139	- / -	- / 108.870

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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 funding will procure 3 Operational Flight Trainers (OFTs) and 2 Part Task Trainers (PTTs) kits and installations.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T00100 / T-1	Modification Number / Title: 8997 / Avionics Modification

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	91.521	4.464	0.872	6.162	0.000	6.162	1.992	0.000	-	-	-	105.011
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	91.521	4.464	0.872	6.162	0.000	6.162	1.992	0.000	-	-	-	105.011
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	91.521	4.464	0.872	6.162	0.000	6.162	1.992	0.000	-	-	-	105.011

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	-	0.000	0.000	-	-	-	0.000	0.000
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The justification/approval for the T-1A Avionics Modification Program is documented on an AF Form 1067, signed February 2014 by AETC/A5/8/9. The 1067 was approved by the Air Force Requirement Oversight Council in June 2014, which established the requirement identified above to replace the existing avionics suite throughout the fleet of 177 aircraft, 16 Operational Flight Trainers, and 14 Part Task Trainers. This effort will require integration engineering for the installation of a current industry standard avionics suite with the legacy aircraft.

104 T-1A aircraft will not be modified due to the planned divestiture of the aircraft.

AETC/CC signed National Security Waiver (NSW) concurrence memo 01 Jun 21; SECAF approved T-1A NSW 3 Sep 21; provides authority to modify an additional 18 aircraft.

Kit T-1A Avionics Replacement Kit (ARK) Installation costs occur for FY-20 (Active)-purchased kits before they are delivered.

Funding request reduced from FY20-FY24 budget for planned divestment of T-1A airlift/tanker Undergraduate Pilot Training fleet (157 aircraft) beginning in FY23. USAF plans to maintain 21 CSO training-configured T-1A aircraft.

Milestone/Development Status

- Contract Award - SRR/SFR - Aircraft Preliminary Integration Review - Simulator Preliminary Integration Review - Technical Order Guidance Conference - Aircraft Critical Integration Review - First Article Inducted - Technical Order 75% In-Process Review - Second First Article Inducted - 100% Technical Order IPR - Test Readiness Review (TRR) - Simulator Critical Integration Review - Production Readiness Review - First LRIP AC Induction (CSO) - MX Val/Ver - FM Val/Ver - MX Training - Second LRIP AC Induction (SUPT) - Supplemental Type Certificate (STC) approved by FAA - Third LRIP AC Induction (SUPT) - Fourth LRIP Induction (CSO) - Field Development Evaluation Completed - Fifth LRIP AC Induction (SUPT) - Operation Flight Training (VN) Modification Induction - Operation Flight Training (NASP) Modification Induction - First Article Aircraft Delivered - Force Development Evaluation (FDE) - Full Rate Production Brief - FRP Acquisition Decision Memorandum Signed - FRP ADM Signed - Option 1 Awarded - LRIP Complete - Official Flight Manuals and MX Tech Orders Delivered - Base year contract complete - Option 1; 25 of 25 FRP RTS, 5 of 5 SIM delivered - Option 2 Awarded - Option 2 completed - 23 of 23 FRP RTS, 6 of 6 SIM delivered - Option 3 Awarded - 4 of 18 FRP RTS, 0 of 5 SIM delivered

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4					P-1 Line Item Number / Title: T00100 / T-1					Modification Number / Title: 8997 / Avionics Modification			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: T-1A				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> T-1A Avionics Replacement Kit (ARK)													
A Kits													
Recurring													
T-1A Avionics Replacement Kit (ARK):INSTALL KITS Group A (Active)	55 / 20.589	18 / 0.947	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	73 / 21.536	
<i>Subtotal: Recurring</i>	- / 20.589	- / 0.947	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.536	
B Kits													
Recurring													
T-1A Avionics Replacement Kit (ARK):EQUIPMENT Group B (Active)	55 / 12.798	18 / 1.213	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	73 / 14.011	
<i>Subtotal: Recurring</i>	- / 12.798	- / 1.213	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.011	
<i>Subtotal: T-1A Avionics Replacement Kit (ARK)</i>	- / 33.387	- / 2.160	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 35.547	
<i>Subtotal: Procurement, All Modification Items</i>	- / 33.387	- / 2.160	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 35.547	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 11.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.500	
Change Orders	- / 3.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.236	
Data	- / 3.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.090	
SIM/TRAINER	11 / 12.886	5 / 2.304	3 / 0.872	5 / 6.162	- / -	5 / 6.162	3 / 1.992	- / -	- / -	- / -	- / -	27 / 24.216	
A&AS	- / 2.394	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.394	
PSC - Contractor Services	- / 3.891	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.891	
<i>Subtotal: Support</i>	11 / 36.997	5 / 2.304	3 / 0.872	5 / 6.162	- / -	5 / 6.162	3 / 1.992	- / -	- / -	- / -	- / -	27 / 48.327	
Installation													
<i>Modification Item 1 of 1:</i> T-1A Avionics Replacement Kit (ARK)	32 / 21.137	23 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 21.137	
<i>Subtotal: Installation</i>	32 / 21.137	23 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 21.137	
Total													
Total Cost (Procurement + Support + Installation)	91.521	4.464	0.872	6.162	0.000	6.162	1.992	0.000	-	-	-	105.011	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T00100 / T-1	Modification Number / Title: 8997 / Avionics Modification
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 1: T-1A Avionics Replacement Kit (ARK)

Manufacturer Information

Manufacturer Name: Field Aerospace Manufacturer Location: Contractor Facility

Administrative Leadtime (in Months): 10 Production Leadtime (in Months): 1

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

Installation Information

Method of Implementation: Contractor Facility

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	32 / 21.137	23 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 21.137
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	32 / 21.137	23 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 21.137

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	32	5	6	6	6	4	4	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	73
Out	32	5	6	6	6	4	4	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	73

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft	P-1 Line Item Number / Title: T03800 / T-38
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0804741F	Other Related Program Elements: 0604233F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	271.437	40.806	45.039	111.668	-	111.668	114.508	82.661	51.862	87.447	147.361	952.789
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	271.437	40.806	45.039	111.668	-	111.668	114.508	82.661	51.862	87.447	147.361	952.789
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	271.437	40.806	45.039	111.668	-	111.668	114.508	82.661	51.862	87.447	147.361	952.789

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The T-38 is a twin-engine, two-seat (tandem), supersonic jet trainer. The T-38C is used by Air Education and Training Command (AETC) as an advanced trainer in Specialized Undergraduate Pilot Training and Introduction to Fighter Fundamentals, and by Air Force Materiel Command (AFMC) as a test bed for fighter-type aircraft capability. T-38A/B aircraft are used by Air Combat Command (ACC) as a companion trainer for U-2 operational units and in Adversary Air (ADAIR) exercises supporting F-22 readiness, and by Air Force Global Strike Command (AFGSC) as a companion trainer for B-2 operational units. There are currently 497 active T-38s in the Air Force inventory (53 T-38A, six (6) AT-38B and 438 T-38C). T-38s first entered service in 1960 and average age is over 50 years old.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Funding for this exhibit contained in PE 0804741F.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft

P-1 Line Item Number / Title:
T03800 / T-38

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0804741F **Other Related Program Elements:** 0604233F

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-40a***	6092 / T-38 A/B ADS-B Out (Reliability & Maintainability)				- / 8.269	- / -	- / -	- / -	- / -	- / -
P-40a***	6093 / T-38 Canopy (Safety)				- / 0.237	- / 3.480	- / 1.543	- / 1.300	- / -	- / 1.300
P-40a***	6094 / T-38A/B ESUP II (Safety)				- / -	- / 5.000	- / -	- / -	- / -	- / -
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)				- / 0.034	- / -	- / 0.005	- / 0.005	- / -	- / 0.005
P-40a***	99999X / Low Cost Modifications (Service Life Extension)				- / 0.049	- / -	- / 0.006	- / 4.666	- / -	- / 4.666
P-3a	6088 / Pacer Classic III (Service Life Extension)		A		- / 251.382	- / 30.641	- / 37.121	- / 41.402	- / 0.000	- / 41.402
P-3a	6090 / T-38 Avionics (Reliability & Maintainability)		A		- / 7.232	- / 0.000	- / 0.000	- / 49.055	- / 0.000	- / 49.055
P-3a	6091 / Talon Repair, Inspection and Maintenance (Reliability & Maintainability)		A		- / 4.234	- / 1.685	- / 6.364	- / 15.240	- / 0.000	- / 15.240
P-40	Total Gross/Weapon System Cost				- / 271.437	- / 40.806	- / 45.039	- / 111.668	- / -	- / 111.668

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-40a***	6092 / T-38 A/B ADS-B Out (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 8.269
P-40a***	6093 / T-38 Canopy (Safety)				- / -	- / -	- / -	- / -	- / -	- / 6.560
P-40a***	6094 / T-38A/B ESUP II (Safety)				- / -	- / -	- / -	- / -	- / -	- / 5.000
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)				- / 0.005	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.064
P-40a***	99999X / Low Cost Modifications (Service Life Extension)				- / 5.776	- / 5.886	- / 6.006	- / 3.706	- / -	- / 26.095
P-3a	6088 / Pacer Classic III (Service Life Extension)		A		- / 42.277	- / 32.385	- / 0.000	- / 14.800	- / -	- / 450.008
P-3a	6090 / T-38 Avionics (Reliability & Maintainability)		A		- / 43.276	- / 21.090	- / 9.020	- / 1.660	- / 0.000	- / 131.333
P-3a	6091 / Talon Repair, Inspection and Maintenance (Reliability & Maintainability)		A		- / 23.174	- / 23.295	- / 36.831	- / 67.276	- / 147.361	- / 325.460
P-40	Total Gross/Weapon System Cost				- / 114.508	- / 82.661	- / 51.862	- / 87.447	- / 147.361	- / 952.789

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod 6090, T-38 Avionics, is a new start.

T-38 structural modernization programs include the Pacer Classic III (PCIII) service life extension and the Talon Repair, Inspection, and Maintenance (TRIM) program. Full funding of these efforts is required to ensure that the T-38 fleet remains viable as a primary training platform until a replacement aircraft is fielded.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft		P-1 Line Item Number / Title: T03800 / T-38
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0804741F	Other Related Program Elements: 0604233F
Line Item MDAP/MAIS Code: N/A		
<p>Procurement of T-38 avionics components is focused on modifications needed to overcome part obsolescence, aging of critical components, and emerging safety concerns. Replacements in the T-38C fleet to the Electronic Engine Display (EED), Multi-Function Display (MFD), Video Data Transfer Unit (VDTU), and Heads-Up Display Camera (HUDC) are necessary to keep T-38C serviceable for training requirements beyond March 2026. The T-38A/B Low-cost Avionics Modification Program (LAMP) is necessary to overcome Air Combat Command's top T-38 priority, and reduce safety risk associated with pilot spatial disorientation.</p>		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6088 / Pacer Classic III

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	251.382	30.641	37.121	41.402	0.000	41.402	42.277	32.385	0.000	14.800	-	450.008
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	251.382	30.641	37.121	41.402	0.000	41.402	42.277	32.385	0.000	14.800	-	450.008
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	251.382	30.641	37.121	41.402	0.000	41.402	42.277	32.385	0.000	14.800	-	450.008

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Pacer Classic III (PCIII) is a depot-level modification program which replaces known life-limited components and ensures structural sustainment of 180 T-38C aircraft which are otherwise at high risk of grounding. Timely modifications will ensure continued execution of the Air Education and Training Command (AETC) advanced undergraduate pilot training mission. PCIII will replace major structural components within the aircraft fuselage including major longerons, bulkhead/formers, internal skins, and structural floors. These modifications have been categorized as Safety of Flight and determined by HQ Air Force Materiel Command (AFMC) to be required to correct materiel deficiencies to ensure safety of personnel, systems, or equipment. If uncorrected, the structural performance risk will ground the system or equipment, restrict flight or ground operations, or result in an unacceptable risk to personnel. PCIII installations are being performed by 575 AMXS at JBSA-Randolph, Texas.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Milestone/Development Status

Production and deployment underway.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4				P-1 Line Item Number / Title: T03800 / T-38				Modification Number / Title: 6088 / Pacer Classic III				
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:						
Models of Systems Affected: T-38			Modification Type: Service Life Extension				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Aircraft Modification Kits												
A Kits												
Recurring												
Aircraft Modification Kits:INSTALL KITS Group A (Active)	155 / 54.629	25 / 7.943	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	180 / 62.572
<i>Subtotal: Recurring</i>	- / 54.629	- / 7.943	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 62.572
<i>Subtotal: Aircraft Modification Kits</i>	- / 54.629	- / 7.943	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 62.572
<i>Subtotal: Procurement, All Modification Items</i>	- / 54.629	- / 7.943	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 62.572
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	0 / 17.791	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 17.791
Data	- / 11.227	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.227
SUPPORT-EQUIP	- / 0.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.031
OTHER GOVT	- / 13.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.800	- / -	- / 28.306
PSC - Contractor Services	- / 4.137	- / 0.284	- / 0.520	- / 0.300	- / -	- / 0.300	- / 0.300	- / 0.300	- / -	- / -	- / -	- / 5.841
PSC - Other Gov't Costs	- / 1.185	- / 0.025	- / 0.050	- / 0.050	- / -	- / 0.050	- / 0.050	- / 0.050	- / -	- / -	- / -	- / 1.410
<i>Subtotal: Support</i>	0 / 47.877	- / 0.309	- / 0.570	- / 0.350	- / -	- / 0.350	- / 0.350	- / 0.350	- / -	- / 14.800	- / -	0 / 64.606
Installation												
<i>Modification Item 1 of 1:</i> Aircraft Modification Kits	98 / 148.876	14 / 22.389	18 / 36.551	18 / 41.052	- / -	18 / 41.052	18 / 41.927	14 / 32.035	- / -	- / -	- / -	180 / 322.830
<i>Subtotal: Installation</i>	98 / 148.876	14 / 22.389	18 / 36.551	18 / 41.052	- / -	18 / 41.052	18 / 41.927	14 / 32.035	- / -	- / -	- / -	180 / 322.830
Total												
Total Cost (Procurement + Support + Installation)	251.382	30.641	37.121	41.402	0.000	41.402	42.277	32.385	0.000	14.800	-	450.008

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6088 / Pacer Classic III

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: Aircraft Modification Kits

Manufacturer Information

Manufacturer Name: CPI Aero	Manufacturer Location: Edgewood, NY
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 30

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

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	98 / 148.876	14 / 22.389	18 / 36.551	18 / 41.052	- / -	18 / 41.052	7 / 16.305	- / -	- / -	- / -	- / -	155 / 265.173
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	11 / 25.622	14 / 32.035	- / -	- / -	- / -	25 / 57.657
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	98 / 148.876	14 / 22.389	18 / 36.551	18 / 41.052	- / -	18 / 41.052	18 / 41.927	14 / 32.035	- / -	- / -	- / -	180 / 322.830

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	98	0	5	4	5	5	4	5	4	5	4	5	4	5	4	5	4	3	4	3	4	-	-	-	-	-	-	-	-	0	180
Out	74	5	5	5	0	5	5	5	5	4	5	4	5	4	5	4	5	4	5	4	5	4	5	5	3	-	-	-	-	0	180

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38 Avionics

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	7.232	0.000	0.000	49.055	0.000	49.055	43.276	21.090	9.020	1.660	0.000	131.333
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	7.232	0.000	0.000	49.055	0.000	49.055	43.276	21.090	9.020	1.660	0.000	131.333
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	7.232	0.000	0.000	49.055	0.000	49.055	43.276	21.090	9.020	1.660	0.000	131.333

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 6090, T-38 Avionics, is a new start. T-38 Avionics work consists of two major programs, the T-38C Terminal Avionics Replacement Program (TARP), and the T-38A/B Low-cost Avionics Modification Program (LAMP), described below.

TARP develops replacements for four T-38C avionics components facing obsolescence. Failure to fund this effort will result in fleet-wide T-38C non-serviceability starting in Apr 2026. TARP includes, but is not limited to:

- 1-2. Electronic Engine Display (EED) and Multi-Function Display (MFD): Without a replacement, T-38C aircraft will be grounded once the current repair contract for EED and MFD expires in Mar 2026.
3. Video Data Transfer Unit (VDTU): Compact Flash Cards that record flight data are no longer procurable, with inventory depleted in FY24. Without a functioning VDTU, the T-38C will be unsuitable for training purposes, with no ability to record flight data.
4. Heads-Up Display Camera (HUDC): Without a replacement, the current HUDC will no longer function after the repair contract expires in Mar 2026. The HUDC is essential to the T-38C training mission, as a critical tool for student/instructor feedback.

LAMP addresses high failure rates in T-38A/B navigation system components, which are currently causing a safety risk to pilot spatial orientation. Flight restrictions associated with this risk are impacting F-22, U-2, and B-2 readiness. Planned component replacements include, but are not limited to, the Attitude Director Indicator and the Horizontal Situation Indicator. Failure to fund this effort will result in ongoing safety risk for the T-38A/B fleet, and increased impact to F-22, U-2, and B-2 readiness. LAMP will replace the current Attitude Director Indicator (ADI) and Horizontal Situation Indicator (HSI), which have low Mean Times Between Failure (MTBF). Ongoing LAMP activity may either refurbish or replace other navigation components, to include the Attitude Gyro Control Assembly, Rate Switching Gyro, Rate Gyro Transmitter, Servo-Amplifier, and Flight Director Computer.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Milestone/Development Status

TARP and LAMP components are in varying stages of development, with procurement starting as soon as development is complete. EED and MFD long-lead procurement is planned to start in FY23, while VDTU and HUDC are planned for production start in FY24.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4					P-1 Line Item Number / Title: T03800 / T-38					Modification Number / Title: 6090 / T-38 Avionics			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: T-38				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0604233F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 4: Electronic Engine Display (EED)													
B Kits													
Recurring													
Electronic Engine Display (EED):EQUIPMENT Group B (Active)	- / -	- / -	- / -	374 / 20.516	- / -	374 / 20.516	377 / 19.186	163 / 8.315	- / -	- / -	- / -	914 / 48.017	
Subtotal: Recurring	- / -	- / -	- / -	- / 20.516	- / -	- / 20.516	- / 19.186	- / 8.315	- / -	- / -	- / -	- / 48.017	
Subtotal: Electronic Engine Display (EED)	- / -	- / -	- / -	- / 20.516	- / -	- / 20.516	- / 19.186	- / 8.315	- / -	- / -	- / -	- / 48.017	
Modification Item 2 of 4: LAMP Kit													
A Kits													
Recurring													
LAMP Kit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	59 / 1.618	- / -	59 / 1.618	- / -	- / -	- / -	- / -	- / -	59 / 1.618	
Subtotal: Recurring	- / -	- / -	- / -	- / 1.618	- / -	- / 1.618	- / -	- / -	- / -	- / -	- / -	- / 1.618	
B Kits													
Recurring													
LAMP Kit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	72 / 5.582	- / -	72 / 5.582	- / -	- / -	- / -	- / -	- / -	72 / 5.582	
Subtotal: Recurring	- / -	- / -	- / -	- / 5.582	- / -	- / 5.582	- / -	- / -	- / -	- / -	- / -	- / 5.582	
Subtotal: LAMP Kit	- / -	- / -	- / -	- / 7.200	- / -	- / 7.200	- / -	- / -	- / -	- / -	- / -	- / 7.200	
Modification Item 3 of 4: Multi-Function Display													
B Kits													
Recurring													
Multi-Function Display:EQUIPMENT Group B (Active)	- / -	- / -	- / -	396 / 20.329	- / -	396 / 20.329	377 / 18.828	163 / 8.159	- / -	- / -	- / -	936 / 47.316	
Subtotal: Recurring	- / -	- / -	- / -	- / 20.329	- / -	- / 20.329	- / 18.828	- / 8.159	- / -	- / -	- / -	- / 47.316	
Subtotal: Multi-Function Display	- / -	- / -	- / -	- / 20.329	- / -	- / 20.329	- / 18.828	- / 8.159	- / -	- / -	- / -	- / 47.316	
Modification Item 4 of 4: Video Data Transfer Unit/Hud Camera													
B Kits													
Recurring													
Video Data Transfer Unit/Hud Camera:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	176 / 3.766	176 / 3.766	86 / 8.333	- / -	- / -	438 / 15.865	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.766	- / 3.766	- / 8.333	- / -	- / -	- / 15.865	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4				P-1 Line Item Number / Title: T03800 / T-38						Modification Number / Title: 6090 / T-38 Avionics		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Models of Systems Affected: T-38				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0604233F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Video Data Transfer Unit/Hud Camera</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.766	- / 3.766	- / 8.333	- / -	- / -	- / 15.865
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 48.045	- / -	- / 48.045	- / 41.780	- / 20.240	- / 8.333	- / -	- / -	- / 118.398
Support (All Modification Items)												
A&AS	- / 0.301	- / -	- / -	- / 0.960	- / -	- / 0.960	- / 1.446	- / 0.800	- / 0.637	- / -	- / -	- / 4.144
PSC - Other Gov't Costs	- / 0.270	- / -	- / -	- / 0.050	- / -	- / 0.050	- / 0.050	- / 0.050	- / 0.050	- / 1.660	- / -	- / 2.130
OTHER GOVT	- / 6.223	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.223
PSC - Contractor Services	- / 0.438	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.438
<i>Subtotal: Support</i>	- / 7.232	- / -	- / -	- / 1.010	- / -	- / 1.010	- / 1.496	- / 0.850	- / 0.687	- / 1.660	- / -	- / 12.935
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	7.232	0.000	0.000	49.055	0.000	49.055	43.276	21.090	9.020	1.660	0.000	131.333

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4			P-1 Line Item Number / Title: T03800 / T-38			Modification Number / Title: 6090 / T-38 Avionics	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 4: Electronic Engine Display (EED)							
Manufacturer Information							
Manufacturer Name: Boeing Company				Manufacturer Location: St. Louis, 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			Sep 2023	Sep 2024	Sep 2025		
Delivery Dates			Sep 2024	Sep 2025	Sep 2026		
Installation Information							
Method of Implementation (Organic): Org/Intermediate						Installation Quantity: 914	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4			P-1 Line Item Number / Title: T03800 / T-38			Modification Number / Title: 6090 / T-38 Avionics	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 2 of 4: LAMP Kit							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 2			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates			Jan 2023				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 72		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4			P-1 Line Item Number / Title: T03800 / T-38			Modification Number / Title: 6090 / T-38 Avionics	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 3 of 4: Multi-Function Display							
Manufacturer Information							
Manufacturer Name: Boeing Company				Manufacturer Location: St. Louis, 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			Sep 2023	Sep 2024	Sep 2025		
Delivery Dates			Sep 2024	Sep 2025	Sep 2026		
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 936		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4			P-1 Line Item Number / Title: T03800 / T-38			Modification Number / Title: 6090 / T-38 Avionics	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 4 of 4: Video Data Transfer Unit/Hud Camera							
Manufacturer Information							
Manufacturer Name: Boeing				Manufacturer Location: St. Louis, 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				Apr 2024	Apr 2025	Nov 2025	
Delivery Dates				Apr 2025	Apr 2026	Nov 2026	
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 438		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6091 / Talon Repair, Inspection and Maintenance

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.234	1.685	6.364	15.240	0.000	15.240	23.174	23.295	36.831	67.276	147.361	325.460
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4.234	1.685	6.364	15.240	0.000	15.240	23.174	23.295	36.831	67.276	147.361	325.460
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.234	1.685	6.364	15.240	0.000	15.240	23.174	23.295	36.831	67.276	147.361	325.460

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Talon Repair, Inspection, and Maintenance (TRIM) is a depot-level modification program which replaces or repairs critical structural items that are subject to time-based degradation. TRIM will be fielded to the complete T-38A/B fleet, and select T-38C aircraft. Of the T-38s to be modified, the T-38A/Bs lack the structural modifications made during the Propulsion Modernization Program (PMP) and the T-38Cs lack the structural modifications made during PCIII. Extended service requirements and continued utilization of these T-38A/B/C aircraft drive the need to correct material deficiencies and fatigue damage to key parts such as upper/lower center longerons, formers/bulkheads, and vertical stabilizer attach angles, and many other parts. These modifications will ensure fleet viability and airworthiness through the required T-38 retirement/divestiture dates. If uncorrected, the structural performance risk may result in aircraft groundings, flight restrictions, more frequent inspection intervals, and/or an unacceptable risk to personnel.

A portion of TRIM FY 2023 procurement funding may be used to expand facilities (non-permanent structure) at Randolph AFB, TX for additional aircraft hangar space, maintenance stands, and other depot equipment.

"This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Milestone/Development Status

Approved configuration parts list been produced to support prototype and verification.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4				P-1 Line Item Number / Title: T03800 / T-38				Modification Number / Title: 6091 / Talon Repair, Inspection and Maintenance					
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: T-38				Modification Type: Reliability & Maintainability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Install Kit													
A Kits													
Recurring													
Install Kit:INSTALL KITS Group A (Active)	15 / 4.199	17 / 1.468	24 / 3.933	26 / 4.394	- / -	26 / 4.394	26 / 4.167	27 / 4.151	26 / 5.468	- / -	- / -	161 / 27.780	
<i>Subtotal: Recurring</i>	- / 4.199	- / 1.468	- / 3.933	- / 4.394	- / -	- / 4.394	- / 4.167	- / 4.151	- / 5.468	- / -	- / -	- / 27.780	
<i>Subtotal: Install Kit</i>	- / 4.199	- / 1.468	- / 3.933	- / 4.394	- / -	- / 4.394	- / 4.167	- / 4.151	- / 5.468	- / -	- / -	- / 27.780	
<i>Subtotal: Procurement, All Modification Items</i>	- / 4.199	- / 1.468	- / 3.933	- / 4.394	- / -	- / 4.394	- / 4.167	- / 4.151	- / 5.468	- / -	- / -	- / 27.780	
Support (All Modification Items)													
SUPPORT-EQUIP	- / -	- / -	- / -	- / 8.942	- / -	- / 8.942	- / -	- / -	- / -	- / 22.214	- / -	- / 31.156	
OTHER GOVT	- / -	- / 0.195	- / 0.664	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.859	
PSC - Other Gov't Costs	- / 0.035	- / 0.022	- / 0.100	- / 0.075	- / -	- / 0.075	- / 0.075	- / 0.052	- / 0.075	- / 0.075	- / 0.125	- / 0.634	
PSC - Contractor Services	- / -	- / -	- / 0.300	- / 0.300	- / -	- / 0.300	- / 0.300	- / 0.300	- / 0.300	- / 1.310	- / 0.600	- / 3.410	
<i>Subtotal: Support</i>	- / 0.035	- / 0.217	- / 1.064	- / 9.317	- / -	- / 9.317	- / 0.375	- / 0.352	- / 0.375	- / 23.599	- / 0.725	- / 36.059	
Installation													
<i>Modification Item 1 of 1:</i> Install Kit	- / -	- / -	1 / 1.367	1 / 1.529	- / -	1 / 1.529	13 / 18.632	17 / 18.792	24 / 30.988	26 / 43.677	79 / 146.636	161 / 261.621	
<i>Subtotal: Installation</i>	- / -	- / -	1 / 1.367	1 / 1.529	- / -	1 / 1.529	13 / 18.632	17 / 18.792	24 / 30.988	26 / 43.677	79 / 146.636	161 / 261.621	
Total													
Total Cost (Procurement + Support + Installation)	4.234	1.685	6.364	15.240	0.000	15.240	23.174	23.295	36.831	67.276	147.361	325.460	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6091 / Talon Repair, Inspection and Maintenance

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: Install Kit

Manufacturer Information

Manufacturer Name: CPI Aerostructures, Inc.	Manufacturer Location: Edgewood, NY
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 42

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	Jun 2025	Jun 2026	
Delivery Dates	Dec 2024	Dec 2025	Dec 2026	Dec 2027	Dec 2028	Dec 2029	

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 / 1.367	1 / 1.529	- / -	1 / 1.529	13 / 18.632	- / -	- / -	- / -	- / -	15 / 21.528
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 18.792	- / -	- / -	- / -	17 / 18.792
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 30.988	- / -	- / -	24 / 30.988
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 43.677	- / -	26 / 43.677
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 45.790	26 / 45.790
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 49.905	27 / 49.905
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 50.941	26 / 50.941
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 1.367	1 / 1.529	- / -	1 / 1.529	13 / 18.632	17 / 18.792	24 / 30.988	26 / 43.677	79 / 146.636	161 / 261.621

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	0	-	-	-	-	-	-	1	-	-	-	1	-	-	3	3	3	4	4	4	5	4	6	6	6	6	6	6	7	7	79	161
Out	0	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	3	3	3	4	4	4	5	4	6	6	6	6	6	99	161

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
11U200 / U-2 Mods

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0305202F, 0305206F **Other Related Program Elements:** 0305202F, 0604257F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	216.274	120.217	121.009	81.650	-	81.650	71.433	69.180	12.939	13.219	-	705.921
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	216.274	120.217	121.009	81.650	-	81.650	71.433	69.180	12.939	13.219	-	705.921
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	216.274	120.217	121.009	81.650	-	81.650	71.433	69.180	12.939	13.219	-	705.921

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	40.932	14.492	2.102	-	2.102	2.140	2.655	2.698	2.756	-	67.775
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The U-2S Dragon Lady platform is a high-demand/low-density aircraft equipped with state-of-the-art sensor and data link systems providing mission essential Intelligence, Surveillance, and Reconnaissance (ISR) to the Combatant Commands, Joint and Combined forces, and the IC community in peacetime and wartime. The program supports core missions such as Sensitive Reconnaissance Operations (outlined in CJCSI 3250.01) in addition to other missions that include execution of CCMD OPLANs and CONPLANs, Humanitarian Assistance/Disaster Response (HADR), Counter-Insurgency (COIN) operations and third-party treaty verification/monitoring via the OLIVE HARVEST mission.

In the FY23 budget, the Air Force will maintain operational capability of the U-2 platform. FY23 procurement funds will be dedicated and required to sustain NDAA directed capability and capacity, and safe and effective operations through the remainder of U-2 scheduled service. Efforts planned as part of the FY23 budget are required to ensure continuous worldwide operations through the remainder of U-2 service. Furthermore, FY23 efforts largely continue existing contracted efforts, which address reliability, maintainability, supportability, Diminishing Manufacturing Sources and Material Shortages (DMSMS), flight test, safety issues, and integration of capability development activities in support of the broader ISR portfolio.

During this time, procurement efforts will address sustainment, modification, and modernization of sensors and associated mission equipment that face near-term sustainability and DMSMS. Also, procurement efforts focus on integrating/expanding platform capabilities within the larger ISR portfolio, enabling improved collection against emerging threats and capabilities through the remainder of scheduled U-2 operations; these efforts include (but are not limited to) Advanced Synthetic Aperture Radar System (ASARS) 2B/C, avionics and navigation tech refresh, and datalink infrastructure upgrades, modernization of aircraft data links, next generation SIGINT, and quick reaction capabilities (QRCs).

Additionally, the U-2 program will continue to support emergent and/or experimental efforts in support of Joint All-Domain Command and Control (JADC2) and Advanced Battle Management System (ABMS) as a platform surrogate for risk reduction.

Currently, the U-2 program provides funding for an ASARS acquisition effort. This effort will design, fabricate, integrate, and field system capability enhancements for a high-altitude deep look SAR system. This mitigates a DMSMS issue with the current U-2 SAR sensor and processor and implements an open architecture approach, of which portions are common with or transferable to the broader ISR enterprise.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force							Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft					P-1 Line Item Number / Title: 11U200 / U-2 Mods				
ID Code (A=Service Ready, B=Not Service Ready): B			Program Elements for Code B Items: 0305202F, 0305206F			Other Related Program Elements: 0305202F, 0604257F			
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	4494 / U-2 Mod (Other)		B		- / 216.274	- / 72.080	- / 55.954	- / 53.667	- / 0.000	- / 53.667
P-3a	4496 / ASARS-2B Procurement for U-2 (Other)		B		- / -	- / 48.137	- / 65.055	- / 27.983	- / 0.000	- / 27.983
P-40	Total Gross/Weapon System Cost				- / 216.274	- / 120.217	- / 121.009	- / 81.650	- / -	- / 81.650

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	4494 / U-2 Mod (Other)		B		- / 55.401	- / 56.450	- / -	- / -	- / -	- / 509.826
P-3a	4496 / ASARS-2B Procurement for U-2 (Other)		B		- / 16.032	- / 12.730	- / 12.939	- / 13.219	- / -	- / 196.095
P-40	Total Gross/Weapon System Cost				- / 71.433	- / 69.180	- / 12.939	- / 13.219	- / -	- / 705.921

*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 budget reflects prioritization of currently contracted efforts to maintain safe and effective operations through the remainder of expected operations. Procurement funding continues to address prudent acquisition efforts to address safety-of-flight, DMSMS, and sustainability issues associated with the platform in both airframe and sensors.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: 11U200 / U-2 Mods	Modification Number / Title: 4494 / U-2 Mod

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	216.274	72.080	55.954	53.667	0.000	53.667	55.401	56.450	-	-	-	509.826
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	216.274	72.080	55.954	53.667	0.000	53.667	55.401	56.450	-	-	-	509.826
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	216.274	72.080	55.954	53.667	0.000	53.667	55.401	56.450	-	-	-	509.826

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The U-2 Program will continue to address reliability, maintainability, sustainability, and safety issues and support U-2 integration of payloads and capabilities. Aircraft and sensor sustainment or enhancements include activities such as, but not limited to the following current programs:

- Advanced Synthetic Aperture Radar System (ASARS) procurement, sustainment, and enhancements to support collection capability and capacity requirements to meet global ISR requirements.
- Electronic Warfare System (EWS) sustainment and enhancements to mitigate DMS and to defend against current and emerging threat systems.
- Data Link sustainment and enhancement: Development, integration and test of beyond line of sight (BLOS) and tactical data links (L-16, IFDL, MADL, etc.) in support of operational requirements and to mitigate DMSMS.
- Modification programs in support safety of flight, DMSMS concerns, support of operational capability and capacity requirements to include: airframe sustainment, Egress System Sustainment and Suitability Effort, helmet and Full Pressure Suit technical refresh, avionics, mission planning, navigation system and stellar tracker initiatives, advanced and agile systems/payloads, Open Mission Systems and Unmanned Aerospace Systems Command and Control Standard Initiative (OMS/UCI) standards compliance, payload sensors, and associated ground support equipment.
- Signals Intelligence (SIGINT) system sustainment, modernization, enhancement, test and integration to meet new/emerging operational requirements.
- Multi-Spectral Sensor sustainment and enhancements to optics and focal planes in support of operational requirements.
- Navigation software/infrastructure, and avionics refresh and upgrades to address DMSMS issues while increasing capability in the integrated intelligence environment. Includes procurement for non-GPS precision, navigation, and timing (PNT) hardware and software.

Milestone/Development Status

Various efforts will continue to develop technologies and capabilities supporting U-2 operations, and will be fielded onto the U-2 platforms, on a schedule dependent on system requirements.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: 11U200 / U-2 Mods				Modification Number / Title: 4494 / U-2 Mod				
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Models of Systems Affected: U-2			Modification Type: Other				Related RDT&E PEs: 0305202F					
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)
RDT&E PE #												
0305202F	- / 230.181	- / 36.600	- / 35.800	- / 20.170	- / -	- / 20.170	- / 20.604	- / 24.089	- / -	- / -	- / -	- / 367.444
Procurement												
Modification Item 1 of 1: U-2 Update Block 20-1												
A Kits												
Recurring												
U-2 Update Block 20-1:INSTALL KITS Group A (Active)	30 / 151.086	22 / 51.224	12 / 36.908	12 / 33.667	- / -	12 / 33.667	12 / 42.031	12 / 36.450	- / -	- / -	- / -	100 / 351.366
<i>Subtotal: Recurring</i>	- / 151.086	- / 51.224	- / 36.908	- / 33.667	- / -	- / 33.667	- / 42.031	- / 36.450	- / -	- / -	- / -	- / 351.366
<i>Subtotal: U-2 Update Block 20-1</i>	- / 151.086	- / 51.224	- / 36.908	- / 33.667	- / -	- / 33.667	- / 42.031	- / 36.450	- / -	- / -	- / -	- / 351.366
<i>Subtotal: Procurement, All Modification Items</i>	- / 151.086	- / 51.224	- / 36.908	- / 33.667	- / -	- / 33.667	- / 42.031	- / 36.450	- / -	- / -	- / -	- / 351.366
Installation												
Modification Item 1 of 1: U-2 Update Block 20-1	30 / 65.188	22 / 20.856	12 / 19.046	12 / 20.000	- / -	12 / 20.000	12 / 13.370	12 / 20.000	- / -	- / -	- / -	100 / 158.460
<i>Subtotal: Installation</i>	30 / 65.188	22 / 20.856	12 / 19.046	12 / 20.000	- / -	12 / 20.000	12 / 13.370	12 / 20.000	- / -	- / -	- / -	100 / 158.460
Total												
Total Cost (Procurement + Support + Installation)	216.274	72.080	55.954	53.667	0.000	53.667	55.401	56.450	-	-	-	509.826

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: 11U200 / U-2 Mods	Modification Number / Title: 4494 / U-2 Mod
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: U-2 Update Block 20-1

Manufacturer Information

Manufacturer Name: Details Classified Manufacturer Location: Details Classified

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	Jan 2021	Jan 2022	Jan 2023	Jan 2024	Jan 2025		
Delivery Dates	Jul 2021	Jul 2022	Jul 2023	Jul 2024	Jul 2025		

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	30 / 65.188	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 65.188
FY 2021	- / -	22 / 20.856	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 20.856
FY 2022	- / -	- / -	12 / 19.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 19.046
FY 2023	- / -	- / -	- / -	12 / 20.000	- / -	12 / 20.000	- / -	- / -	- / -	- / -	- / -	12 / 20.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	12 / 13.370	- / -	- / -	- / -	- / -	12 / 13.370
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 20.000	- / -	- / -	- / -	12 / 20.000
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	30 / 65.188	22 / 20.856	12 / 19.046	12 / 20.000	- / -	12 / 20.000	12 / 13.370	12 / 20.000	- / -	- / -	- / -	100 / 158.460

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	30	8	8	4	2	4	4	2	2	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-	-	-	-	-	-	0	100
Out	30	8	8	4	2	4	4	2	2	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-	-	-	-	-	-	0	100

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: 11U200 / U-2 Mods	Modification Number / Title: 4496 / ASARS-2B Procurement for U-2

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	48.137	65.055	27.983	0.000	27.983	16.032	12.730	12.939	13.219	-	196.095
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	48.137	65.055	27.983	0.000	27.983	16.032	12.730	12.939	13.219	-	196.095
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	48.137	65.055	27.983	0.000	27.983	16.032	12.730	12.939	13.219	-	196.095

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	1.500	40.932	14.492	2.102	-	2.102	2.140	2.655	2.698	2.756	-	69.275
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The ASARS-2B program focuses on upgrades to the "front end of the radar system, where "front end is defined to include the antenna, power unit and receiver/exciter. The ASARS-2A's passive Electronically Scanned Array (ESA) and Transmitter are replaced with a state-of-the-art Active Electronically Scanned Array (AESA). Accompanying the replacement of the ESA with an AESA, associated "front end components including the Power Conditioning Unit (PCU) are also to be updated to deal with DMSMS issues. The Receiver/Exciter Controller (REC) is replaced with a state-of-the-art Receiver/Exciter (REX). System software is also updated, primarily to interface with the new front-end, but also to incorporate new modes, such as: High Precision Track Moving Target Indicator (HP-TMTI), Maritime Search (MS), Maritime Track Acquisition (MTA), and Maritime Inverse Synthetic Aperture Radar (ISAR) modes. The upgrades also introduce advanced technologies into the AESA and REX to support future growth, and design updates for the PCU. The upgrades include the ability to utilize common open architecture, increased range/bandwidth/interoperability, a modified receiver, new maritime modes, new software algorithms, and standardized data output formats. The ASARS-2B program is dependent on the ASARS-2C Air-cooled Scalable Commercial Off the Shelf (COTS) Processor (ASCP).

Validated requirements consists of the "Improved Synthetic Aperture Radar for the U-2" Operational Requirement Document (Apr 1996) and approved AF Form 1067s. It also aligns with the USECAF/VCSAF "Interim Guidance on High Altitude ISR Transition Plan", dated 19 Oct 2017. Current efforts are collaborative in funding and scheduling with PE 0305206F & PE 0604257F. ASARS-2B (front-end) effort is NOT a new start, and has been previously planned for in PE 35202F.

Milestone/Development Status

The ASARS-2B program builds upon and operationalizes the ASARS-2B Technology Demonstration effort, funded under Advanced Technology and Sensors PE 0604257F, which concluded in early FY19 with flight demonstrations. ASARS-2B awarded the Unfinitized Contract Action (UCA) in FY19 with definitization occurring in 2021, to complete non-recurring engineering and build/integration of two systems for flight test activities expected late FY23. A production contract will be awarded by Q3 FY22 to produce ASARS-2B operational systems and initial spares with an Initial Operational Capability expected in FY24. Efforts will be made to align procurement of ASARS-2B with ASARS-2C ("back-end"/processor) to the max extent possible IAW CSAF/SECAF rapid innovation initiatives.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: 11U200 / U-2 Mods				Modification Number / Title: 4496 / ASARS-2B Procurement for U-2				
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: U-2				Modification Type: Other				Related RDT&E PEs: 0305202F, 0604257F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> ASARS-2B												
A Kits												
Recurring												
ASARS-2B:INSTALL KITS Group A (Active)	- / -	1 / 48.137	2 / 65.055	1 / 27.983	- / -	1 / 27.983	0 / 16.032	0 / 12.730	4 / 12.939	- / 13.000	- / -	8 / 195.876
<i>Subtotal: Recurring</i>	- / -	- / 48.137	- / 65.055	- / 27.983	- / -	- / 27.983	- / 16.032	- / 12.730	- / 12.939	- / 13.000	- / -	- / 195.876
<i>Subtotal: ASARS-2B</i>	- / -	- / 48.137	- / 65.055	- / 27.983	- / -	- / 27.983	- / 16.032	- / 12.730	- / 12.939	- / 13.000	- / -	- / 195.876
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 48.137	- / 65.055	- / 27.983	- / -	- / 27.983	- / 16.032	- / 12.730	- / 12.939	- / 13.000	- / -	- / 195.876
Support (All Modification Items)												
A&AS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.219	- / -	- / 0.219
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.219	- / -	- / 0.219
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	48.137	65.055	27.983	0.000	27.983	16.032	12.730	12.939	13.219	-	196.095

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: 11U200 / U-2 Mods			Modification Number / Title: 4496 / ASARS-2B Procurement for U-2	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: ASARS-2B							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 24			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Mar 2021	Jun 2022	Jun 2023			Jan 2026	
Delivery Dates	Mar 2023	Jun 2024	Jun 2025			Jan 2028	
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 8		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C01000 / KC-10A (ATCA)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401219F	Other Related Program Elements: 0401219F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	64.189	0.117	1.902	3.443	-	3.443	0.000	0.000	0.000	0.000	-	69.651
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	64.189	0.117	1.902	3.443	-	3.443	0.000	0.000	0.000	0.000	-	69.651
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	64.189	0.117	1.902	3.443	-	3.443	0.000	0.000	0.000	0.000	-	69.651

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	0.600	-	-	-	-	-	-	-	-	-	0.600
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications for the fleet of 26 KC-10 aircraft at the end of FY23. The primary modifications are Service Bulletins (SBs) that address obsolescence issues, provide worldwide civil airspace accessibility, and incorporate aging aircraft and FAA certification requirements.

Despite scheduled to retire by the end of FY24, the KC-10 continues playing a vital role in US Air Force aerial refueling operations. In FY21, KC-10s offloaded 24,432,371 gallons of fuel to 5,653 aircraft in support of US global operations. Thus, maintaining adequate mod funding through retirement is essential.

The three engine KC-10 serves a dual role by providing both air refueling and strategic airlift support. The aircraft provides air refueling by using both the boom and the drogue methods and can carry up to 56 standard 463-L pallets.

Funding for this exhibit is contained in PE 0401219F.

Justification:

FY2023 funding for Service Bulletins, Airworthiness Directives, and All Operator Letters issued to correct deficiencies.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C02100 / C-21
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	62.815	0.000	0.000	2.024	-	2.024	0.000	0.000	0.000	0.000	-	64.839
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	62.815	0.000	0.000	2.024	-	2.024	0.000	0.000	0.000	0.000	-	64.839
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	62.815	0.000	0.000	2.024	-	2.024	0.000	0.000	0.000	0.000	-	64.839

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds low-cost modifications and service bulletins for nineteen (19) C-21A aircraft, commercial equivalent to the Learjet 35. The C-21A aircraft is a twin-turbofan engine aircraft used for cargo and passenger airlift over medium ranges. The design service life is 50 years with an average of 10 years remaining. Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration certification while improving flight safety, reliability, and maintainability. This funding may include emerging modification requirements to support Program Support Costs (PCS), Advisory and Assistant Services (A&AS), system integration lab, trainers, equipment and other government costs.

Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Funding for this exhibit contained in PE 0401314F.

Justification:

This program, P-3A Mod 99999S, SERVICE BULLETINS, is a new start.

This program, P-3A Mod 99999X, Low Cost Modifications, is a new start.

FY23: Funding requested for Low Cost Modifications and FAA required Service Bulletins.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C02500 / VC-25A Mod
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	332.484	1.983	0.096	2.146	-	2.146	1.053	1.072	0.000	0.000	-	338.834
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	332.484	1.983	0.096	2.146	-	2.146	1.053	1.072	0.000	0.000	-	338.834
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	332.484	1.983	0.096	2.146	-	2.146	1.053	1.072	0.000	0.000	-	338.834

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds aircraft modernization efforts for two (2) VC-25A presidential support aircraft, a commercial derivative of the commercial Boeing 747-200. The aircraft are commonly referred to as "Air Force One." The aircraft were purchased in FY87, modified by Boeing to meet presidential requirements, and delivered in FY91. These on-going modifications are to extend the service life until the VC-25B aircraft are fielded.

For purposes of the application of section 2244a of title 10, United States Code, the retirement date of the VC-25A is deemed to be not later than December 31, 2025. Funding for the VC-25A is substantially reduced in FY21 and beyond to comply with 10 U.S.C 2244a. Pursuant to the provisions of that law, SecAF determined the following capabilities modifications are in the national security interest of the United States:

ADS-B Out/Mode 5 Identification Friend or Foe (IFF) FAA mandate, Diminishing Manufacturing Sources and Material Solutions (DMSMS), VIPSAM Protected SATCOM (VPS), Presidential Information Technology Communication (PITC), Wi-Fi and Commercial Internet, Bandwidth Aggregation, Multi-Role Tactical Common Data Link (MR-TCDL), Mobile User Objective System (MUOS) and High Definition Video Teleconference (HDVTC).

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration (FAA) airworthiness certification while improving flight safety, reliability, and maintainability.

Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

This Requirement supports performance of a full financial audit as required by title 10 U.S.C Chapter 9A, Sec 240-D

Funding for this exhibit contained in PE 0401314F.

Justification:

This program, P-3A Mod 9715, VC-25 Block Upgrade, is a new start.

FY23: Funding is required for low cost mods and service bulletins.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: C02500 / VC-25A Mod
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
Line Item MDAP/MAIS Code: N/A		

FY23: Funding is also required for the technical data integration of the Multi-Role Tactical Common Data Link on one (1) aircraft.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C04000 / C-40
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0504324F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	160.136	7.252	10.262	2.197	-	2.197	0.000	0.000	0.000	0.000	0.000	179.847
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	160.136	7.252	10.262	2.197	-	2.197	0.000	0.000	0.000	0.000	0.000	179.847
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	160.136	7.252	10.262	2.197	-	2.197	0.000	0.000	0.000	0.000	0.000	179.847

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds all modifications for four (4) C-40B and seven (7) C-40C aircraft: commercial-derivative Boeing 737 business jets. The C-40B/C is a twin-engine, turbo fan aircraft used to airlift DoD officials and United States government personnel worldwide. The design service life is 35,000 flying hours with an average of 24,000 hours remaining. This funding may include emerging modification requirements to support Program Support Costs (PCS), Advisory & Assistance Services (A&AS), systems integration lab, trainers, equipment, other government costs, and Senior Leader Communications System modernization efforts.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration (FAA) certification while improving flight safety, reliability, and maintainability.

Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D

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.

Funding for this exhibit contained in PEs 0401314F and 0504324F

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.252	10.262	2.197	-	2.197	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.252	10.262	2.197	-	2.197	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: C04000 / C-40
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0504324F
Line Item MDAP/MAIS Code: N/A		

Justification:
FY23: Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration certification while improving flight safety, reliability, and maintainability of the C-40 fleet.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C13000 / C-130

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207224F, 0401115F, 0401897F, 0404011F **Other Related Program Elements:** 0207224F, 0401115F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,843.166	263.600	272.251	114.268	-	114.268	95.932	129.762	163.671	252.484	0.008	3,135.142
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,843.166	263.600	272.251	114.268	-	114.268	95.932	129.762	163.671	252.484	0.008	3,135.142
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,843.166	263.600	272.251	114.268	-	114.268	95.932	129.762	163.671	252.484	0.008	3,135.142

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the C-130H and Special Mission C-130 aircraft. The four-engine C-130H provides theater airlift and carries either 92 troops, 64 paratroopers, 74 litter patients, or six (6) standard 463-L pallets.

Funding provides weapon system modifications and upgrades to meet USAF mission requirements for the LC/C-130H fleets.

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.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Funding for this exhibit is contained in PEs 0401115F, 0401897F, and 0404011F.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	113.543	164.225	41.512	-	41.512	30.464	53.232	85.851	213.859
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	150.057	106.083	51.120	-	51.120	47.842	56.122	57.068	23.175
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.943	21.636	-	21.636	17.626	20.408	20.752	15.450
Total:	Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: C13000 / C-130
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207224F, 0401115F, 0401897F, 0404011F	Other Related Program Elements: 0207224F, 0401115F

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	263.600	272.251	114.268	-	114.268	95.932	129.762	163.671	252.484

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C13000 / C-130

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207224F, 0401115F, 0401897F, 0404011F **Other Related Program Elements:** 0207224F, 0401115F

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-40a***	3773 / C-130 8-Bladed Propeller Upgrade (Capability Improvement)				- / 251.004	- / 180.000	- / 151.000	- / -	- / -	- / -
P-40a***	8221 / C-130 ALR-69A Radar Warning Receiver (RWR) (Capability Improvement)				- / 36.000	- / -	- / -	- / -	- / -	- / -
P-40a***	8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) (Service Life Extension)				- / 688.007	- / -	- / -	- / 0.000	- / -	- / 0.000
P-40a***	9139 / MOD V IFF (Capability Improvement)				- / 42.100	- / -	- / -	- / -	- / -	- / -
P-40a***	9141 / C-130 CRASHWORTHY LOADMASTER SEAT (No text provided.)				- / 1.853	- / -	- / -	- / -	- / -	- / -
P-40a***	9149 / C-130 Aux Hyd Pump (Capability Improvement)				- / 16.599	- / -	- / -	- / -	- / -	- / -
P-40a***	92302 / C-130H Avionics Modernization Program (AMP) Increment 1 (Capability Improvement)				- / 91.128	- / -	- / -	- / -	- / -	- / -
P-40a***	92308 / T-56 3.5 Engine Mod (Capability Improvement)				- / 340.000	- / 79.000	- / 79.000	- / -	- / -	- / -
P-40a***	92309 / Onboard Fire Incident Response Equipment (Capability Improvement)				- / 149.967	- / -	- / 0.100	- / 0.100	- / -	- / 0.100
P-40a***	92310 / HC-130P/N Variable Speed Drogue (VSD) (Capability Improvement)				- / 1.410	- / -	- / -	- / -	- / -	- / -
P-40a***	92311 / Electronic Propeller Control System (EPCS) (Capability Improvement)				- / 141.770	- / -	- / -	- / -	- / -	- / -
P-40a***	92312 / In-Flight Propeller Balancing System (IPBS) (Reliability & Maintainability)				- / 1.500	- / -	- / -	- / -	- / -	- / -
P-40a***	92315 / C-130H Simulator (Other)				- / 40.675	- / -	- / 7.128	- / 4.485	- / -	- / 4.485
P-40a***	92316 / AFSOC C-130 Mods (Capability Improvement)				- / 22.642	- / -	- / -	- / -	- / -	- / -
P-40a***	92321 / C-130H MUOS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	92322 / MAFFS (Capability Improvement)				- / -	- / 4.600	- / 20.000	- / -	- / -	- / -
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)				- / 3.034	- / -	- / -	- / -	- / -	- / -
P-40a***	99999C / HC-130 Low Cost Mods (Reliability & Maintainability)				- / 1.907	- / -	- / -	- / -	- / -	- / -
P-40a***	99999M / MISC SIMULATOR UPDATES (Capability Improvement)				- / 0.703	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 12.867	- / -	- / 1.839	- / 1.792	- / -	- / 1.792
P-3a	8518 / C-130H Avionics Modernization Program (AMP) Increment 2 (Capability Improvement)		B		- / 0.000	- / 0.000	- / 13.184	- / 107.891	- / 0.000	- / 107.891
P-40	Total Gross/Weapon System Cost				- / 1,843.166	- / 263.600	- / 272.251	- / 114.268	- / -	- / 114.268

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-40a***	3773 / C-130 8-Bladed Propeller Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 582.004

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C13000 / C-130

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207224F, 0401115F, 0401897F, 0404011F **Other Related Program Elements:** 0207224F, 0401115F

Line Item MDAP/MAIS Code: N/A

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-40a***	8221 / C-130 ALR-69A Radar Warning Receiver (RWR) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 36.000
P-40a***	8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) (Service Life Extension)				- / -	- / 19.365	- / 35.275	- / 57.507	- / -	- / 800.154
P-40a***	9139 / MOD V IFF (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 42.100
P-40a***	9141 / C-130 CRASHWORTHY LOADMASTER SEAT (No text provided.)				- / -	- / -	- / -	- / -	- / -	- / 1.853
P-40a***	9149 / C-130 Aux Hyd Pump (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 16.599
P-40a***	92302 / C-130H Avionics Modernization Program (AMP) Increment 1 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 91.128
P-40a***	92308 / T-56 3.5 Engine Mod (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 498.000
P-40a***	92309 / Onboard Fire Incident Response Equipment (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 150.167
P-40a***	92310 / HC-130P/N Variable Speed Drogue (VSD) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 1.410
P-40a***	92311 / Electronic Propeller Control System (EPCS) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 141.770
P-40a***	92312 / In-Flight Propeller Balancing System (IPBS) (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 1.500
P-40a***	92315 / C-130H Simulator (Other)				- / 0.000	- / -	- / -	- / -	- / -	- / 52.288
P-40a***	92316 / AFSOC C-130 Mods (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 22.642
P-40a***	92321 / C-130H MUOS (Capability Improvement)				- / -	- / 10.182	- / 10.417	- / 10.742	- / -	- / 31.341
P-40a***	92322 / MAFFS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 24.600
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)				- / -	- / -	- / -	- / -	- / -	- / 3.034
P-40a***	99999C / HC-130 Low Cost Mods (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 1.907
P-40a***	99999M / MISC SIMULATOR UPDATES (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 0.703
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 1.926	- / 1.958	- / 1.977	- / 1.904	- / -	- / 24.263
P-3a	8518 / C-130H Avionics Modernization Program (AMP) Increment 2 (Capability Improvement)			B	- / 94.006	- / 98.257	- / 116.002	- / 182.331	- / 0.008	- / 611.679
P-40	Total Gross/Weapon System Cost				- / 95.932	- / 129.762	- / 163.671	- / 252.484	- / 0.008	- / 3,135.142

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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 primary efforts include: C-130 AMP Inc 2, C-130H Simulator, and Low Cost Modifications.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: C13000 / C-130
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207224F, 0401115F, 0401897F, 0404011F	Other Related Program Elements: 0207224F, 0401115F
Line Item MDAP/MAIS Code: N/A		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 8518 / C-130H Avionics Modernization Program (AMP) Increment 2

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	13.184	107.891	0.000	107.891	94.006	98.257	116.002	182.331	0.008	611.679
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	13.184	107.891	0.000	107.891	94.006	98.257	116.002	182.331	0.008	611.679
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	13.184	107.891	0.000	107.891	94.006	98.257	116.002	182.331	0.008	611.679

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-130H AMP Increment 2 program performs comprehensive avionics and cockpit modernization which replaces aging, unreliable equipment and adds combat capability enhancements. It also resolves select obsolescence and Diminishing Manufacturing Source (DMS) issues with solutions that may include life of type buys or bridge buys, as well as provides Type 1 training and modifies the C-130H aircrew and maintenance training systems and courseware. Funding also includes depot activation, program office support, Program Support Cost (PSC) activities and studies and risk reduction efforts as necessary. The DMS effort includes removal of end-of-life software/hardware within simulator systems and a move to a modular, common open system architecture that is sustainable and cyber-resilient. Implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative. The Capability Development Document (CDD) for this program was approved on 8 Aug 14.

The Mod 92321 C-130H Mobile User Objective System (MUOS)/Second generation Anti-Jam Tactical UHF Radio for NATO (MUOS/SATURN) Capability Improvement program will be executed under the Mod 8518 AMP Increment 2 program for kit buys and installations to capitalize on aircraft downtime efficiencies.

The C-130H requires global Beyond Line of Sight (BLOS) secure voice communications (classified up to SECRET) via Ultra High Frequency Military Satellite Communication (UHF MILSATCOM) connectivity. Funding timelines and UHF Follow-On MILSATCOM end of life dictate a MUOS-capable radio solution in order to fully utilize Department of Defense' (DOD) new UHF MILSATCOM constellation and waveform, Full Operational Frequency (FOC) 2017. The MUOS satellite constellation and radios will support backwards compatible secure BLOS communications connectivity with legacy users of the Non-Demand Assigned Multiple Access (DAMA) and Integrated Waveform (IW) communications systems.

The C-130H requires the significantly improved anti-jam capability provided by SATURN to remain interoperable with other AF, DOD, NATO and coalition aircraft. SATURN is the next generation UHF line-of-sight (LOS) anti-jam capability that will supplement and replace the currently installed HAVE QUICK II UHF LOS anti-jam capability.

This funding includes Rapid Global Mobility (RGM) platform related activities including, but not limited to fielding actions such as kit buys, installations, and support equipment.

The C-130H AMP Increment 2 program provides weapon system modifications and upgrades to meet USAF mission requirements for the LC/C-130H fleets.

The C-130H AMP Increment 2 program modifies up to 134 C-130H USAF-owned aircraft consisting of H3s, H2.5s, H2s, and LC-130H aircraft. The Engineering and Manufacturing Development (EMD) phase consists of up to three (3) prototype aircraft that represent variations in mission design with the remaining aircraft modified in the production phase.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 8518 / C-130H Avionics Modernization Program (AMP) Increment 2

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

C-130H AMP Increment 2 contract was awarded 3rd quarter of FY19. Preliminary Design Review took place 3rd quarter FY 2020 and Critical Design Review was accomplished in the 1st quarter FY 2021.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.355	35.135	-	35.135	28.538	29.380	45.964	151.431
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.886	51.120	-	51.120	47.842	48.469	49.286	15.450
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.943	21.636	-	21.636	17.626	20.408	20.752	15.450
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.000	13.184	107.891	0.000	107.891	94.006	98.257	116.002	182.331

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C13000 / C-130					Modification Number / Title: 8518 / C-130H Avionics Modernization Program (AMP) Increment 2				
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:							
Models of Systems Affected: C-130H				Modification Type: Capability Improvement				Related RDT&E PEs: 0401115F						
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)		
RDT&E PE #														
0401115F	3 / 141.983	- / 48.698	- / 9.359	- / 0.407	- / -	- / 0.407	- / 0.415	- / -	- / -	- / -	- / -	3 / 200.862		
Procurement														
Modification Item 1 of 2: C-130 AMP Incr 2 - B														
B Kits														
Recurring														
C-130 AMP Incr 2 - B:EQUIPMENT Group B (Guard)	- / -	- / -	2 / 3.303	19 / 30.814	- / -	19 / 30.814	19 / 30.540	19 / 31.266	19 / 32.219	6 / 10.083	- / -	84 / 138.225		
C-130 AMP Incr 2 - B:EQUIPMENT Group B (Reserve)	- / -	- / -	1 / 1.652	8 / 12.974	- / -	8 / 12.974	7 / 11.251	8 / 13.165	8 / 13.566	6 / 10.083	- / -	38 / 62.691		
Subtotal: Recurring	- / -	- / -	- / 4.955	- / 43.788	- / -	- / 43.788	- / 41.791	- / 44.431	- / 45.785	- / 20.166	- / -	- / 200.916		
Subtotal: C-130 AMP Incr 2 - B	- / -	- / -	- / 4.955	- / 43.788	- / -	- / 43.788	- / 41.791	- / 44.431	- / 45.785	- / 20.166	- / -	- / 200.916		
Modification Item 2 of 2: COMMON: C-130H AMP Incr 2 - A														
A Kits														
Recurring														
COMMON: C-130H AMP Incr 2 - A:INSTALL KITS Group A (Guard)	- / -	- / -	2 / 0.583	19 / 5.438	- / -	19 / 5.438	19 / 5.389	19 / 5.518	19 / 5.686	6 / 1.779	- / -	84 / 24.393		
COMMON: C-130H AMP Incr 2 - A:INSTALL KITS Group A (Reserve)	- / -	- / -	1 / 0.291	8 / 2.290	- / -	8 / 2.290	7 / 1.986	8 / 2.323	8 / 2.394	6 / 1.779	- / -	38 / 11.063		
Subtotal: Recurring	- / -	- / -	- / 0.874	- / 7.728	- / -	- / 7.728	- / 7.375	- / 7.841	- / 8.080	- / 3.558	- / -	- / 35.456		
Subtotal: COMMON: C-130H AMP Incr 2 - A	- / -	- / -	- / 0.874	- / 7.728	- / -	- / 7.728	- / 7.375	- / 7.841	- / 8.080	- / 3.558	- / -	- / 35.456		
Subtotal: Procurement, All Modification Items	- / -	- / -	- / 5.829	- / 51.516	- / -	- / 51.516	- / 49.166	- / 52.272	- / 53.865	- / 23.724	- / -	- / 236.372		
Support (All Modification Items)														
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000		
OTHER GOVT	- / -	- / -	- / 0.001	- / 14.302	- / -	- / 14.302	- / 15.978	- / 15.998	- / 14.200	- / 3.000	- / -	- / 33.479		
Change Orders	- / -	- / -	- / 0.500	- / 17.725	- / -	- / 17.725	- / 16.449	- / 16.327	- / 24.138	- / 133.729	- / 0.002	- / 178.870		
SIM/TRAINER	- / -	- / -	- / 0.001	- / 0.500	- / -	- / 0.500	2 / 6.000	2 / 6.120	2 / 6.240	1 / 3.182	- / -	7 / 22.043		
Data	- / -	- / -	- / 0.259	- / 0.171	- / -	- / 0.171	- / 0.068	- / 0.100	- / 0.124	- / 0.135	- / -	- / 0.857		
SUPPORT-EQUIP	- / -	- / -	- / 0.600	- / 2.000	- / -	- / 2.000	- / 1.000	- / 1.200	- / 1.500	- / 1.500	- / -	- / 7.800		
ICS-Labor	- / -	- / -	- / -	- / 0.113	- / -	- / 0.113	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / -	- / 2.113		
ICS-Material	- / -	- / -	- / 0.001	- / 0.050	- / -	- / 0.050	- / 0.050	- / 0.500	- / 0.500	- / 0.500	- / 0.000	- / 1.601		
PSC - Contractor Services	- / -	- / -	- / 5.892	- / 19.874	- / -	- / 19.874	- / 8.063	- / 8.200	- / 8.327	- / 8.450	- / -	- / 48.806		
PSC - Other Gov't Costs	- / -	- / -	- / 0.100	- / 0.400	- / -	- / 0.400	- / 0.400	- / 0.400	- / 0.400	- / 0.400	- / -	- / 2.100		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 8518 / C-130H Avionics Modernization Program (AMP) Increment 2

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: C-130H	Modification Type: Capability Improvement	Related RDT&E PEs: 0401115F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Type 1 Training	- / -	- / -	- / 0.001	- / -	- / -	- / -	- / 0.030	- / 0.035	- / 0.035	- / 0.035	- / 0.006	- / 0.142
<i>Subtotal: Support</i>	- / -	- / -	- / 7.355	- / 35.135	- / -	- / 35.135	2 / 28.538	2 / 29.380	2 / 45.964	1 / 151.431	- / 0.008	7 / 297.811
Installation												
<i>Modification Item 1 of 2:</i> C-130 AMP Incr 2 - B	- / -	- / -	- / -	30 / 21.240	- / -	30 / 21.240	26 / 16.302	27 / 16.605	27 / 16.173	12 / 7.176	- / -	122 / 77.496
<i>Subtotal: Installation</i>	- / -	- / -	- / -	30 / 21.240	- / -	30 / 21.240	26 / 16.302	27 / 16.605	27 / 16.173	12 / 7.176	- / -	122 / 77.496
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	13.184	107.891	0.000	107.891	94.006	98.257	116.002	182.331	0.008	611.679

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 8518 / C-130H Avionics Modernization Program (AMP) Increment 2

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 2: C-130 AMP Incr 2 - B

Manufacturer Information

Manufacturer Name: L3Harris	Manufacturer Location: Waco, TX
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 3

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	3 / 2.124	- / -	3 / 2.124	- / -	- / -	- / -	- / -	- / -	3 / 2.124
FY 2023	- / -	- / -	- / -	27 / 19.116	- / -	27 / 19.116	- / -	- / -	- / -	- / -	- / -	27 / 19.116
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	26 / 16.302	- / -	- / -	- / -	- / -	26 / 16.302
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 16.605	- / -	- / -	- / -	27 / 16.605
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 16.173	- / -	- / -	27 / 16.173
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 7.176	- / -	12 / 7.176
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	30 / 21.240	- / -	30 / 21.240	26 / 16.302	27 / 16.605	27 / 16.173	12 / 7.176	- / -	122 / 77.496

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	0	-	-	-	-	-	-	-	-	7	7	8	8	6	6	7	7	7	7	6	7	7	7	6	7	6	6	0	0	0	122
Out	0	-	-	-	-	-	-	-	-	7	7	8	8	6	6	7	7	7	7	6	7	7	7	6	7	6	6	0	0	0	122

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: C13000 / C-130			Modification Number / Title: 8518 / C-130H Avionics Modernization Program (AMP) Increment 2	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 2 of 2: COMMON: C-130H AMP Incr 2 - A							
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): Org/Intermediate					Installation Quantity: 0		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C1300J / C-130J Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0401132F, 0401897F	Other Related Program Elements: 0401132F, 0401897F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	639.707	135.882	110.784	112.299	-	112.299	92.267	141.124	111.966	157.469	460.780	1,962.278
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	639.707	135.882	110.784	112.299	-	112.299	92.267	141.124	111.966	157.469	460.780	1,962.278
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	639.707	135.882	110.784	112.299	-	112.299	92.267	141.124	111.966	157.469	460.780	1,962.278

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-130J is a medium-size transport aircraft capable of performing a variety of combat delivery (tactical airlift) operations across a broad range of mission environments. The C-130J aircraft, with its extended (by 15 ft) fuselage, provides additional cargo carrying capacity for the USAF combat delivery mission compared with legacy C-130E/Hs and the C-130J (short).

Other variants of the USAF C-130J fleet are all short-bodied aircraft and include the EC-130J (airborne psychological operations), WC-130J (weather reconnaissance), HC-130J (combat search and rescue), MC-130J (special operations), and the AC-130J (close air support and armed reconnaissance).

As of 7 Sep 2021, there have been 273 USAF C-130J aircraft deliveries. Variants include 136 C-130J; ten (10) C-130J (short); ten (10) WC-130J; seven (7) EC-130J; 37 HC-130J; and, 73 MC/AC-130J. The designed service life is 35 years and the average service life remaining is 26.2 years.

Funding for this exhibit is contained in PE 0401132F and PE 0401897F.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

In FY 2022, the center wing box replacement program continues with the installation of enhanced service life (ESL) center wing kits and the procurement of ESL kits. Since Nov 2009, all production C-130Js have been delivered with the ESL center wing.

In order to better manage the fleet and to avoid simultaneously supporting three separate aircraft configurations (Block 6, Block 7 and Block 8.1), Blocks 7.0 and 8.1 have been combined into one aircraft modification program. This way the aircraft and trainers will only have to be modified one time. The Block 8.1 mod includes Block 7.0 content.

The international C-130J Block 8.1 operational test & evaluation (OT&E) is complete.

Block 8.1 includes ADS-B Out and Mode V IFF as well as 34 additional capabilities. In order to meet the Federal Aviation Administration (FAA) 2020 mandate, the USAF installed the Block 8.1 ADS-B Out/Mode V IFF solution on all C-130J variants not scheduled to receive Block 8.1 by January 2020. All C-130Js still require Block 8.1.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C1300J / C-130J Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0401132F, 0401897F	Other Related Program Elements: 0401132F, 0401897F
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Line Item MDAP/MAIS Code: N/A

This funding includes Rapid Global Mobility (RGM) platform related activities including but not limited to fielding actions.

This includes AMBIT Funding.

NOTE: USMC KC-130Js and USCG HC-130Js are following USAF's lead and will also field combined Block 7/8.1 aircraft.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	135.882	110.784	112.299	-	112.299	92.267	141.124	111.966	157.469
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	135.882	110.784	112.299	-	112.299	92.267	141.124	111.966	157.469

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C1300J / C-130J Mods

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0401132F, 0401897F **Other Related Program Elements:** 0401132F, 0401897F

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-40a***	_2612 / Avionics System and Structural Modifications (Capability Improvement)				- / 32.618	- / 0.346	- / 0.196	- / 0.165	- / -	- / 0.165
P-40a***	_5296 / Wind Gust Brake (Reliability & Maintainability)				- / 39.849	- / -	- / -	- / -	- / -	- / -
P-40a***	8668 / WST Threat Generators (Capability Improvement)				- / 0.796	- / 5.942	- / -	- / -	- / -	- / -
P-40a***	8669 / Communication Modernization (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Safety)				- / 10.860	- / 0.410	- / 0.200	- / 0.200	- / -	- / 0.200
P-3a	5222 / BLOCK 8.1 (Capability Improvement)		B		- / 412.837	- / 115.790	- / 87.134	- / 98.891	- / 0.000	- / 98.891
P-3a	8646 / C-130J Center Wing Replacement (Service Life Extension)		A		- / 142.747	- / 13.394	- / 23.254	- / 13.043	- / 0.000	- / 13.043
P-40	Total Gross/Weapon System Cost				- / 639.707	- / 135.882	- / 110.784	- / 112.299	- / -	- / 112.299

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-40a***	_2612 / Avionics System and Structural Modifications (Capability Improvement)				- / -	- / 0.152	- / -	- / -	- / -	- / 33.477
P-40a***	_5296 / Wind Gust Brake (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 39.849
P-40a***	8668 / WST Threat Generators (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 6.738
P-40a***	8669 / Communication Modernization (Capability Improvement)				- / -	- / 19.622	- / 19.700	- / 19.934	- / 30.138	- / 89.394
P-40a***	99999X / Low Cost Modifications (Safety)				- / 0.100	- / 0.200	- / 0.200	- / 0.200	- / -	- / 12.370
P-3a	5222 / BLOCK 8.1 (Capability Improvement)		B		- / 74.911	- / 105.472	- / 88.286	- / 115.529	- / 420.242	- / 1,519.092
P-3a	8646 / C-130J Center Wing Replacement (Service Life Extension)		A		- / 17.256	- / 15.678	- / 3.780	- / 21.806	- / 10.400	- / 261.358
P-40	Total Gross/Weapon System Cost				- / 92.267	- / 141.124	- / 111.966	- / 157.469	- / 460.780	- / 1,962.278

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod 8669, Communication Modernization, is a new start.

FY 2023 funding request includes: Block 8.1, C-130J Center Wing Replacement, Low Cost mods, and Avionics Systems and Structures.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 5222 / BLOCK 8.1

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	412.837	115.790	87.134	98.891	0.000	98.891	74.911	105.472	88.286	115.529	420.242	1,519.092
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	412.837	115.790	87.134	98.891	0.000	98.891	74.911	105.472	88.286	115.529	420.242	1,519.092
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	412.837	115.790	87.134	98.891	0.000	98.891	74.911	105.472	88.286	115.529	420.242	1,519.092

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-130J combined 7.0 and 8.1 Block Upgrades (BU) modification program funds the procurement and installation of Communication, Navigation and Surveillance / Air Traffic Management (CNS/ATM) navigation safety and other aircraft hardware and software improvements on USAF C-130J aircraft and associated training systems. The combined BU 7.0 and 8.1 (now called just Block 8.1) is being implemented to maintain access to global airspace, enhance aircraft navigational accuracy and aircrew situational awareness. It increases overall C-130J operational utility/effectiveness and reduces C-130J systems/parts obsolescence.

Block 8.1 provides 38 capabilities for the C-130J including: a new Flight Management System, civil GPS, Link-16 (MIDS LVT BU2 and JTRS), digital maps, Mission Computer - Operational Flight Program (MC-OFP), a modified control yoke, Telecommunications Electronics Material Protected from Emanating Spurious Transmissions (TEMPEST) compliance, Identification Friend or Foe (IFF) Transponder Mode 5, Enhanced Inter-Communication System, CNS/ATM Civil Data Link and Automatic Dependent Surveillance Broadcast (ADS-B) out. HQ AMC procures the common Group B Kits only for the EC/HC Block 8.1 program. All variant unique hardware is procured by the applicable variant. HQ AMC is collaborating with AFRC and ANG units to provide funding in the out years to retrofit their respective units.

This funding request will support diminishing manufacturing sources and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.

This project contains procurement funding for related non-recurring engineering efforts, studies and risk reduction activities.

This project contains procurement funding for Program Support Costs (PSC) activities.

The number of kits procured is based on aircraft installations and available funding.

The ADS-B Out and Mode V IFF capability was accelerated ahead of the complete Block 8.1 mod in order to meet the Jan 2020 mandate and is included in this document.

This program includes costs for the following C-130J aircraft variants: C-130J stretch aircraft, C-130J short aircraft, WC-130J aircraft, HC-130J aircraft, and EC-130J aircraft.

This funding includes Rapid Global Mobility (RGM) platform related activities including but not limited to fielding actions such as kit buys, installation and support equipment.

The spares for the Block 8.1 program and B kits purchased for other variants are on the "Other Government Cost" line on this P3A.

This program includes cost for a Software Integration Lab (SIL) stand up as the depot source of repair (DSOR) states BU 7.0/8.1 software maintenance will be performed organically at WR-ALC.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 5222 / BLOCK 8.1
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

This funding request will support removal of the Dynamic Re-tasking Capability during the install of Block 7.0/8.1.

The first combined Block 7.0/8.1 mod was delivered 1 Dec 2020.

Milestone/Development Status

Successful full rate production decision 1 Oct 2019.

BU 8.1 operational testing occurred 9 Jul 18 to 28 Sep 18 with no reported CAT 1 deficiencies, formal out brief provided to AMC 22 Jul 19.

An adversarial assessment was performed second quarter FY 2019; no new risks were identified. Full rate production decision approval - 1 Oct 19.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	115.790	87.134	98.891	-	98.891	74.911	105.472	88.286	115.529
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	115.790	87.134	98.891	0.000	98.891	74.911	105.472	88.286	115.529

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C1300J / C-130J Mods						Modification Number / Title: 5222 / BLOCK 8.1		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: C-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0401132F				
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)
RDT&E PE #												
0401132F	- / 28.654	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.654
Procurement												
Modification Item 1 of 2: ADS-B Out												
A Kits												
Recurring												
ADS-B Out:INSTALL KITS Group A (Active)	244 / 25.893	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	244 / 25.893
<i>Subtotal: Recurring</i>	- / 25.893	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.893
B Kits												
Recurring												
ADS-B Out:EQUIPMENT Group B (Active)	244 / 38.163	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	244 / 38.163
<i>Subtotal: Recurring</i>	- / 38.163	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 38.163
<i>Subtotal: ADS-B Out</i>	- / 64.056	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 64.056
Modification Item 2 of 2: Block 81 LAM Kit												
A Kits												
Recurring												
Block 81 LAM Kit:INSTALL KITS Group A (Active)	52 / 49.120	23 / 19.200	2 / 6.100	12 / 14.240	- / -	12 / 14.240	4 / 12.788	10 / 21.897	7 / 13.200	10 / 29.879	38 / 62.380	158 / 228.804
<i>Subtotal: Recurring</i>	- / 49.120	- / 19.200	- / 6.100	- / 14.240	- / -	- / 14.240	- / 12.788	- / 21.897	- / 13.200	- / 29.879	- / 62.380	- / 228.804
B Kits												
Recurring												
Block 81 LAM Kit:EQUIPMENT Group B (Active)	52 / 80.357	23 / 41.427	2 / 4.740	12 / 28.800	- / -	12 / 28.800	4 / 7.290	10 / 20.570	7 / 22.000	10 / 31.490	38 / 157.400	158 / 394.074
<i>Subtotal: Recurring</i>	- / 80.357	- / 41.427	- / 4.740	- / 28.800	- / -	- / 28.800	- / 7.290	- / 20.570	- / 22.000	- / 31.490	- / 157.400	- / 394.074
<i>Subtotal: Block 81 LAM Kit</i>	- / 129.477	- / 60.627	- / 10.840	- / 43.040	- / -	- / 43.040	- / 20.078	- / 42.467	- / 35.200	- / 61.369	- / 219.780	- / 622.878
<i>Subtotal: Procurement, All Modification Items</i>	- / 193.533	- / 60.627	- / 10.840	- / 43.040	- / -	- / 43.040	- / 20.078	- / 42.467	- / 35.200	- / 61.369	- / 219.780	- / 686.934
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / 39.496	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 39.496
OTHER GOVT	- / 73.539	- / 17.679	- / 11.800	- / 19.418	- / -	- / 19.418	- / 12.133	- / 37.246	- / 12.586	- / 10.520	- / 52.260	- / 247.181
Data	- / 5.383	- / 1.471	- / 2.800	- / 10.200	- / -	- / 10.200	- / 10.300	- / 8.800	- / 8.800	- / 5.000	- / 3.700	- / 20.454
GFP	- / 12.200	- / 6.649	- / 12.100	- / 14.257	- / -	- / 14.257	- / 5.100	- / 1.800	- / 7.200	- / 8.800	- / 19.100	- / 77.206
SIM/TRAINER	- / 16.200	- / 2.490	- / 16.100	- / -	- / -	- / -	- / 8.200	- / 5.700	- / 9.900	- / 12.300	- / 5.800	- / 76.690
SUPPORT-EQUIP	- / -	- / 1.300	- / 2.145	- / 11.000	- / -	- / 11.000	- / 10.500	- / 10.600	- / 10.800	- / 11.000	- / 3.000	- / 10.345
ICS-Labor	- / 8.400	- / 5.200	- / 17.800	- / 17.900	- / -	- / 17.900	- / 14.400	- / 10.250	- / 10.400	- / 10.540	- / 10.550	- / 35.440

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 **P-1 Line Item Number / Title:** C1300J / C-130J Mods **Modification Number / Title:** 5222 / BLOCK 8.1

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

Models of Systems Affected: C-130J **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0401132F

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)
ICS-Material	- / 0.440	- / 0.100	- / 1.185	- / 1.176	- / -	- / 1.176	- / 1.200	- / 1.200	- / 1.200	- / 1.200	- / 3.152	- / 10.853
PSC - Contractor Services	- / 12.656	- / 8.350	- / 10.100	- / 7.800	- / -	- / 7.800	- / 7.200	- / 6.409	- / 8.100	- / 8.500	- / 16.700	- / 85.815
<i>Subtotal: Support</i>	<i>- / 168.314</i>	<i>- / 43.239</i>	<i>- / 64.030</i>	<i>- / 41.751</i>	<i>- / -</i>	<i>- / 41.751</i>	<i>- / 39.033</i>	<i>- / 54.005</i>	<i>- / 40.986</i>	<i>- / 47.860</i>	<i>- / 104.262</i>	<i>- / 603.480</i>
Installation												
<i>Modification Item 1 of 2: ADS-B Out</i>	244 / 7.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	244 / 7.500
<i>Modification Item 2 of 2: Block 81 LAM Kit</i>	27 / 43.490	11 / 11.924	15 / 12.264	15 / 14.100	- / -	15 / 14.100	15 / 15.800	6 / 9.000	8 / 12.100	9 / 6.300	52 / 96.200	158 / 221.178
<i>Subtotal: Installation</i>	<i>271 / 50.990</i>	<i>11 / 11.924</i>	<i>15 / 12.264</i>	<i>15 / 14.100</i>	<i>- / -</i>	<i>15 / 14.100</i>	<i>15 / 15.800</i>	<i>6 / 9.000</i>	<i>8 / 12.100</i>	<i>9 / 6.300</i>	<i>52 / 96.200</i>	<i>402 / 228.678</i>
Total												
Total Cost (Procurement + Support + Installation)	412.837	115.790	87.134	98.891	0.000	98.891	74.911	105.472	88.286	115.529	420.242	1,519.092

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 5222 / BLOCK 8.1
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 2: ADS-B Out

Manufacturer Information

Manufacturer Name: Lockheed Martin Manufacturer Location: Marietta GA

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 7

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

Installation Information

Method of Implementation: Contract Field Team

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	244 / 7.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	244 / 7.500
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	244 / 7.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	244 / 7.500

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						
In	244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	244
Out	244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	244

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 5222 / BLOCK 8.1
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 2 of 2: Block 81 LAM Kit

Manufacturer Information

Manufacturer Name: Lockheed Martin Manufacturer Location: Marietta GA/Greenville SC

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 20

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	Nov 2026
Delivery Dates	Jul 2022	Jul 2023	Jul 2024	Jul 2025	Jul 2026	Jul 2027	Jul 2028

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	27 / 43.490	11 / 11.924	14 / 10.264	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 65.678
FY 2021	- / -	- / -	1 / 2.000	15 / 14.100	- / -	15 / 14.100	7 / 14.700	- / -	- / -	- / -	- / -	23 / 30.800
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.100	- / -	- / -	- / -	- / -	2 / 1.100
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.000	6 / 9.000	- / -	- / -	- / -	12 / 9.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.100	- / -	- / -	4 / 1.100
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 11.000	6 / 0.000	- / -	10 / 11.000
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 6.300	4 / 4.200	7 / 10.500
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 18.000	10 / 18.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 74.000	38 / 74.000
Total	27 / 43.490	11 / 11.924	15 / 12.264	15 / 14.100	- / -	15 / 14.100	15 / 15.800	6 / 9.000	8 / 12.100	9 / 6.300	52 / 96.200	158 / 221.178

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	27	3	3	3	2	3	4	4	4	4	4	4	3	4	3	4	4	2	1	2	1	2	2	2	2	2	3	2	2	52	158
Out	27	3	3	3	2	3	4	4	4	4	4	4	3	4	3	4	4	2	1	2	1	2	2	2	2	2	3	2	2	52	158

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 8646 / C-130J Center Wing Replacement

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	142.747	13.394	23.254	13.043	0.000	13.043	17.256	15.678	3.780	21.806	10.400	261.358
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	142.747	13.394	23.254	13.043	0.000	13.043	17.256	15.678	3.780	21.806	10.400	261.358
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	142.747	13.394	23.254	13.043	0.000	13.043	17.256	15.678	3.780	21.806	10.400	261.358

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program replaces the Center Wing Box (CWB) on C-130J aircraft with an extended service life (ESL) center wing. The ESL wing has been the standard production wing since Nov 2009. The first 77 C-130Js were built with the legacy C-130H center wing. The legacy wing has a life of 38,500 equivalent flying hours (EFH) before flight restrictions are imposed. The severity of the flight environment dictates how rapidly a wing needs to be replaced. The planes at the C-130J schoolhouse require replacement first, as virtually all of their flight hours are tactical. Validated Requirements Document: AF IMT 1067 (Modification Proposal) AMC-11-115, dated 19 Sep 11.

This project contains procurement funding for studies and risk reduction activities.

Milestone/Development Status

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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.394	23.254	13.043	-	13.043	17.256	15.678	3.780	21.806
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.394	23.254	13.043	0.000	13.043	17.256	15.678	3.780	21.806

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C1300J / C-130J Mods					Modification Number / Title: 8646 / C-130J Center Wing Replacement		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Models of Systems Affected: C-130J				Modification Type: Service Life Extension				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Install Kit C-130J Contract 1 Group A												
A Kits												
Recurring												
Install Kit C-130J Contract 1 Group A:INSTALL KITS Group A (Active)	19 / 75.682	3 / 12.893	2 / 9.670	- / -	- / -	- / -	1 / 5.668	2 / 9.982	- / -	2 / 11.000	- / -	29 / 124.895
Install Kit C-130J Contract 1 Group A:INSTALL KITS Group A (Reserve)	1 / 4.330	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.330
<i>Subtotal: Recurring</i>	- / 80.012	- / 12.893	- / 9.670	- / -	- / -	- / -	- / 5.668	- / 9.982	- / -	- / 11.000	- / -	- / 129.225
<i>Subtotal: Install Kit C-130J Contract 1 Group A</i>	- / 80.012	- / 12.893	- / 9.670	- / -	- / -	- / -	- / 5.668	- / 9.982	- / -	- / 11.000	- / -	- / 129.225
<i>Subtotal: Procurement, All Modification Items</i>	- / 80.012	- / 12.893	- / 9.670	- / -	- / -	- / -	- / 5.668	- / 9.982	- / -	- / 11.000	- / -	- / 129.225
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 8.240	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.240
Change Orders	- / 0.125	- / -	- / 0.454	- / -	- / -	- / -	- / 1.000	- / 4.096	- / 2.180	- / -	- / -	- / 7.855
Data	- / 1.382	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.382
OCO INSTALLATIONS	- / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.004
PMA - Contractor Services	- / 3.400	- / 0.465	- / 0.473	- / 0.518	- / -	- / 0.518	- / 1.351	- / 1.500	- / 1.500	- / 0.203	- / -	- / 9.410
A&AS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.203	- / -	- / 0.203
PMA - Other Gov't Costs	- / 0.086	- / 0.036	- / 0.036	- / 0.038	- / -	- / 0.038	- / 0.037	- / 0.100	- / 0.100	- / -	- / -	- / 0.433
<i>Subtotal: Support</i>	- / 13.237	- / 0.501	- / 0.963	- / 0.556	- / -	- / 0.556	- / 2.388	- / 5.696	- / 3.780	- / 0.406	- / -	- / 27.527
Installation												
<i>Modification Item 1 of 1:</i> Install Kit C-130J Contract 1 Group A	13 / 49.498	2 / 0.000	4 / 12.621	4 / 12.487	- / -	4 / 12.487	2 / 9.200	- / -	1 / 0.000	2 / 10.400	2 / 10.400	30 / 104.606
<i>Subtotal: Installation</i>	13 / 49.498	2 / -	4 / 12.621	4 / 12.487	- / -	4 / 12.487	2 / 9.200	- / -	1 / -	2 / 10.400	2 / 10.400	30 / 104.606
Total												
Total Cost (Procurement + Support + Installation)	142.747	13.394	23.254	13.043	0.000	13.043	17.256	15.678	3.780	21.806	10.400	261.358

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: C1300J / C-130J Mods
		Modification Number / Title: 8646 / C-130J Center Wing Replacement
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Modification Item 1 of 1: Install Kit C-130J Contract 1 Group A

Manufacturer Information

Manufacturer Name: Lockheed Martin Aero				Manufacturer Location: Marietta GA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 27			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jan 2021	Jan 2022		Jan 2024	Jan 2025		Jan 2027
Delivery Dates	Apr 2023	Apr 2024		Apr 2026	Apr 2027		Apr 2029

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	13 / 49.498	2 / 0.000	4 / 12.621	1 / 3.594	- / -	1 / 3.594	- / -	- / -	- / -	- / -	- / -	20 / 65.713
FY 2021	- / -	- / -	- / -	3 / 8.893	- / -	3 / 8.893	- / -	- / -	- / -	- / -	- / -	3 / 8.893
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	2 / 9.200	- / -	- / -	- / -	- / -	2 / 9.200
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	- / -	- / -	1 / 0.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 10.400	- / -	2 / 10.400
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 10.400	2 / 10.400
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	13 / 49.498	2 / 0.000	4 / 12.621	4 / 12.487	- / -	4 / 12.487	2 / 9.200	- / -	1 / 0.000	2 / 10.400	2 / 10.400	30 / 104.606

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	13	-	1	1	-	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	1	-	-	-	1	1	2	30	
Out	8	1	1	2	1	-	1	1	-	1	1	1	1	1	1	1	1	1	1	-	-	-	-	1	-	-	-	-	4	30	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C13500 / C-135
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0401218F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	471.062	72.350	58.776	149.023	-	149.023	103.035	98.870	98.351	100.482	0.000	1,151.949
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	471.062	72.350	58.776	149.023	-	149.023	103.035	98.870	98.351	100.482	0.000	1,151.949
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	471.062	72.350	58.776	149.023	-	149.023	103.035	98.870	98.351	100.482	0.000	1,151.949

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	5.014	-	-	5.014
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The KC-135 is the US Air Force's (USAF) aerial refueling workhorse. In FY 2021, USAF KC-135s offloaded 61,810,088 gallons of fuel and refueled 32,441 aircraft in support of global operations. KC-135 modernization funding is vital to ensure the KC-135 fleet can support global aerial refueling operations to 2040 and beyond.

The C/KC-135 is a four-engine aircraft used for long range cargo, passenger airlift and to support theater commanders. The C/KC-135 provides air refueling through either the refueling boom or drogue. As a cargo aircraft, the C/KC-135 can carry six (6) standard 463-L pallets. There are 392 aircraft (391 R/Ts, plus one test tanker) in the C/KC-135 inventory. There are no special purpose aircraft (all OC-135s retired in FY 2021) in the C/KC-135 inventory. The average age is 59 years.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

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.

Funding for this exhibit is contained in PE 0401218F.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	29.112	16.545	86.485	-	86.485	44.074	67.661	82.674
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	29.477	28.122	42.516	-	42.516	40.226	24.114	13.081
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.761	14.109	20.022	-	20.022	18.735	7.095	2.596
Total:	Quantity	-	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C13500 / C-135
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0401218F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	72.350	58.776	149.023	-	149.023	103.035	98.870	98.351	100.482

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C13500 / C-135

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0401218F **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-40a***	9818 / VOR/ILS ANTENNAE (Capability Improvement)				- / 9.286	- / 0.001	- / 0.001	- / 0.001	- / -	- / 0.001
P-40a***	9824 / ADS-B (Capability Improvement)				- / 14.019	- / -	- / -	- / -	- / -	- / -
P-40a***	9828 / Real Time in the Cockpit (RTIC) (Capability Improvement)				- / 44.400	- / -	- / -	- / 4.678	- / -	- / 4.678
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Capability Improvement)				- / 0.050	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 14.474	- / 1.995	- / 1.995	- / 4.995	- / -	- / 4.995
P-3a	8653 / BLOCK 45 (Capability Improvement)		A		- / 351.209	- / 64.035	- / 48.794	- / 63.539	- / 0.000	- / 63.539
P-3a	9826 / Rudder Position Indicator (RPI) (Capability Improvement)		B		- / 21.635	- / 0.020	- / 6.179	- / 9.286	- / 0.000	- / 9.286
P-3a	9827 / KC-135 AERO-I SATCOM replacement (Reliability & Maintainability)		B		- / 15.989	- / 6.274	- / 1.782	- / 19.243	- / 0.000	- / 19.243
P-3a	9829 / MUOS Radios (Capability Improvement)		B		- / -	- / -	- / -	- / 25.039	- / 0.000	- / 25.039
P-3a	9831 / COMM2 Crypto and Data (Capability Improvement)		B		- / -	- / -	- / -	- / 22.217	- / 0.000	- / 22.217
P-40	Total Gross/Weapon System Cost				- / 471.062	- / 72.350	- / 58.776	- / 149.023	- / -	- / 149.023

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-40a***	9818 / VOR/ILS ANTENNAE (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 9.289
P-40a***	9824 / ADS-B (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 14.019
P-40a***	9828 / Real Time in the Cockpit (RTIC) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 49.078
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Capability Improvement)				- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.225
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 1.995	- / 1.995	- / 1.995	- / 4.995	- / -	- / 34.439
P-3a	8653 / BLOCK 45 (Capability Improvement)		A		- / 54.563	- / 64.732	- / 72.257	- / 33.000	- / 0.000	- / 752.129
P-3a	9826 / Rudder Position Indicator (RPI) (Capability Improvement)		B		- / 8.119	- / 3.427	- / 2.841	- / 0.000	- / 0.000	- / 51.507
P-3a	9827 / KC-135 AERO-I SATCOM replacement (Reliability & Maintainability)		B		- / 7.269	- / 0.100	- / 0.000	- / 0.000	- / -	- / 50.657
P-3a	9829 / MUOS Radios (Capability Improvement)		B		- / 18.464	- / 28.591	- / 21.233	- / 62.462	- / 0.000	- / 155.789
P-3a	9831 / COMM2 Crypto and Data (Capability Improvement)		B		- / 12.600	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 34.817
P-40	Total Gross/Weapon System Cost				- / 103.035	- / 98.870	- / 98.351	- / 100.482	- / 0.000	- / 1,151.949

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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:

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: C13500 / C-135
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0401218F	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>This program, P-3A Mod 9828, Real Time in the Cockpit (RTIC), is a new start. This program, P-3A Mod 9829, MUOS Radios, is a new start. This program, P-3A Mod 9831, COMM2 Crypto and Data, is a new start.</p> <p>FY 2023 primary efforts include: KC-135 AERO-I SATCOM, Block 45, Rudder Position Indicator (RPI), Mobile User Objective System (MUOS) Radios, and Low Cost Modifications. All efforts are necessary to modernize KC-135 to support aerial refueling requirements through 2040.</p>		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 8653 / BLOCK 45
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	351.209	64.035	48.794	63.539	0.000	63.539	54.563	64.732	72.257	33.000	0.000	752.129
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	351.209	64.035	48.794	63.539	0.000	63.539	54.563	64.732	72.257	33.000	0.000	752.129
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	351.209	64.035	48.794	63.539	0.000	63.539	54.563	64.732	72.257	33.000	0.000	752.129

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Block 45 program replaces legacy parts that are difficult to maintain, driving high sustainment costs, failing at high rates, and are no longer procurable. The modification includes a new Digital Flight Director, Digital Radio Altimeter, Digital Autopilot, and Electronic Engine Instrument Display. (PE 040128F)

Capabilities Development Document in lieu of Capabilities Production Document dated 17 May 12. Block 45 is the third major avionics upgrade to extend the KC-135 as a viable weapon system through FY 2040; Block 45 reduces maintenance repair time and sustainment cost for effected systems.

Scope: 397 C/KC-135 aircraft, 19 pilot simulators and 5 cockpit simulators with Block 45 install schedule through completion in 2026.

Total of 226 aircraft have been upgrade to Block 45.

FY 2023 Funding and Milestones: Request of \$63.539M; Block 45 upgrades at 38 aircraft per year. Full Rate Production Lot 5.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Milestone/Development Status

Developmental Test & Evaluation completed March 2013. Milestone C approval received 25 July 2013. Currently in Full Rate Production.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	23.689	9.767	25.406	-	25.406	15.981	44.019	67.781
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	27.841	25.717	25.272	-	25.272	25.721	16.223	4.476
AFR	Quantity	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 8653 / BLOCK 45
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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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
Total Obligation Authority	12.505	13.310	12.861	-	12.861	12.861	4.490	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	64.035	48.794	63.539	0.000	63.539	54.563	64.732	72.257	33.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C13500 / C-135					Modification Number / Title: 8653 / BLOCK 45			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: KC-135				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Block 45													
A Kits													
Recurring													
Block 45:INSTALL KITS Group A (Active)	85 / 7.537	5 / 0.362	9 / 0.640	8 / 0.579	- / -	8 / 0.579	8 / 0.579	8 / 0.600	- / -	- / -	- / -	123 / 10.297	
Block 45:INSTALL KITS Group A (Guard)	101 / 7.947	22 / 1.593	19 / 1.310	20 / 1.448	- / -	20 / 1.448	20 / 1.448	7 / 0.600	0 / 0.000	- / -	- / -	189 / 14.346	
Block 45:INSTALL KITS Group A (Reserve)	44 / 3.301	11 / 0.796	10 / 0.724	10 / 0.724	- / -	10 / 0.724	10 / 0.724	- / -	- / -	- / -	- / -	85 / 6.269	
<i>Subtotal: Recurring</i>	- / 18.785	- / 2.751	- / 2.674	- / 2.751	- / -	- / 2.751	- / 2.751	- / 1.200	- / 0.000	- / -	- / -	- / 30.912	
B Kits													
Recurring													
Block 45:EQUIPMENT Group B (Active)	89 / 67.755	5 / 3.823	9 / 6.882	8 / 6.117	- / -	8 / 6.117	8 / 6.117	8 / 6.643	- / -	- / -	- / -	127 / 97.337	
Block 45:EQUIPMENT Group B (Guard)	99 / 70.821	22 / 16.823	19 / 14.529	20 / 15.293	- / -	20 / 15.293	20 / 15.293	7 / 6.643	- / 0.000	- / -	- / -	187 / 139.402	
Block 45:EQUIPMENT Group B (Reserve)	42 / 32.134	11 / 8.411	10 / 7.647	10 / 7.647	- / -	10 / 7.647	10 / 7.647	0 / 0.000	- / -	- / -	- / -	83 / 63.486	
<i>Subtotal: Recurring</i>	- / 170.710	- / 29.057	- / 29.058	- / 29.057	- / -	- / 29.057	- / 29.057	- / 13.286	- / 0.000	- / -	- / -	- / 300.225	
<i>Subtotal: Block 45</i>	- / 189.495	- / 31.808	- / 31.732	- / 31.808	- / -	- / 31.808	- / 31.808	- / 14.486	- / 0.000	- / -	- / -	- / 331.137	
<i>Subtotal: Procurement, All Modification Items</i>	- / 189.495	- / 31.808	- / 31.732	- / 31.808	- / -	- / 31.808	- / 31.808	- / 14.486	- / 0.000	- / -	- / -	- / 331.137	
Support (All Modification Items)													
Change Orders	- / 8.002	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.655	- / -	- / -	- / -	- / 11.657	
Data	- / 1.295	- / -	- / -	- / 10.000	- / -	- / 10.000	- / -	- / 10.085	- / 2.662	- / -	- / -	- / 14.042	
SIM/TRAINER	17 / 33.521	- / 6.350	- / -	1 / 7.604	- / -	1 / 7.604	- / -	1 / 13.741	- / 48.216	- / -	- / -	19 / 109.432	
SUPPORT-EQUIP	- / 0.972	- / 1.000	- / -	- / 1.845	- / -	- / 1.845	- / 10.067	- / 4.281	- / 0.093	- / -	- / -	- / 18.258	
OTHER GOVT	- / 131.959	- / 4.771	- / -	- / 13.357	- / -	- / 13.357	- / 15.294	- / 9.778	- / 8.636	- / 33.000	- / -	- / 96.795	
PSC - Contractor Services	- / 15.156	- / 1.000	- / -	- / 1.863	- / -	- / 1.863	- / 10.332	- / 1.454	- / 0.352	- / -	- / -	- / 10.157	
PSC - Other Gov't Costs	- / 0.859	- / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.059	
<i>Subtotal: Support</i>	17 / 81.764	- / 14.321	- / -	1 / 14.669	- / -	1 / 14.669	- / 5.693	1 / 32.994	- / 59.959	- / 33.000	- / -	19 / 242.400	
Installation													
<i>Modification Item 1 of 1:</i> Block 45	184 / 79.950	38 / 17.906	38 / 17.062	38 / 17.062	- / -	38 / 17.062	38 / 17.062	38 / 17.252	13 / 12.298	- / -	- / -	387 / 178.592	
<i>Subtotal: Installation</i>	184 / 79.950	38 / 17.906	38 / 17.062	38 / 17.062	- / -	38 / 17.062	38 / 17.062	38 / 17.252	13 / 12.298	- / -	- / -	387 / 178.592	
Total													
Total Cost (Procurement + Support + Installation)	351.209	64.035	48.794	63.539	0.000	63.539	54.563	64.732	72.257	33.000	0.000	752.129	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 8653 / BLOCK 45
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 1: Block 45

Manufacturer Information

Manufacturer Name: Rockwell Collins Manufacturer Location: Cedar Rapids, IA

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 8

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	15 / 8.434	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 8.434
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 8.434	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 8.434

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	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15
Out	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15

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	169 / 71.516	36 / 16.964	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	205 / 88.480

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: C13500 / C-135
		Modification Number / Title: 8653 / BLOCK 45
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Modification Item 1 of 1: Block 45

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)
FY 2021	- / -	2 / 0.942	36 / 16.164	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 17.106
FY 2022	- / -	- / -	2 / 0.898	36 / 16.164	- / -	36 / 16.164	- / -	- / -	- / -	- / -	- / -	38 / 17.062
FY 2023	- / -	- / -	- / -	2 / 0.898	- / -	2 / 0.898	36 / 16.164	- / -	- / -	- / -	- / -	38 / 17.062
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.898	36 / 16.164	- / -	- / -	- / -	38 / 17.062
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.088	13 / 12.298	- / -	- / -	15 / 13.386
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	169 / 71.516	38 / 17.906	38 / 17.062	38 / 17.062	- / -	38 / 17.062	38 / 17.062	38 / 17.252	13 / 12.298	- / -	- / -	372 / 170.158

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	169	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	5	5	5	8	-	-	-	-	0	382
Out	159	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	4	-	-	-	-	0	382

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 9826 / Rudder Position Indicator (RPI)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	21.635	0.020	6.179	9.286	0.000	9.286	8.119	3.427	2.841	0.000	0.000	51.507
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	21.635	0.020	6.179	9.286	0.000	9.286	8.119	3.427	2.841	0.000	0.000	51.507
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	21.635	0.020	6.179	9.286	0.000	9.286	8.119	3.427	2.841	0.000	0.000	51.507

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Rudder Position Indicator (RPI) program installs a display on each side of the cockpit showing the actual and commanded rudder position and will visually identify differences to the crew. Changing the function of the rudder command indicator to display actual and input rudder position is needed to provide aircrew situational awareness if dangerous errant rudder deflections occur. (PE 0401218F)

AF Form 1067 AMC, 14-096. This is AMC's Requirements & Planning Council #2 Priority and a safety critical modification stemming from the Shell 77 accident that resulted in the loss of its crew.

359 aircraft being modified during scheduled Programmed Depot Maintenance (PDM) maintenance beginning in FY 2022 and ending in FY 2027. First PDM install February 2022.

FY 2023 Funding and FY23 Milestones: \$9.286M; Post Milestone C; Kit Validation/Verification. A/B Kit purchase and installation, installation protection assets.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Milestone/Development Status

Materiel Development Decision/Acquisition Strategy Panel: Sep 18

Milestone-C: Nov 19

First Install: Nov 21 - Feb 22

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.020	4.200	6.493	-	6.493	5.415	1.947	1.241	-
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	1.676	2.032	-	2.032	2.009	1.008	1.272	-
AFR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	0.303	0.761	-	0.761	0.695	0.472	0.328	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 9826 / Rudder Position Indicator (RPI)
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	0.020	6.179	9.286	0.000	9.286	8.119	3.427	2.841	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C13500 / C-135					Modification Number / Title: 9826 / Rudder Position Indicator (RPI)				
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:							
Models of Systems Affected: KC-135				Modification Type: Capability Improvement				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1:</i> RPI														
A Kits														
Recurring														
RPI:INSTALL KITS Group A (Active)	60 / 0.871	- / -	30 / 0.472	30 / 0.472	- / -	30 / 0.472	23 / 0.363	- / -	- / -	- / -	- / -	143 / 2.178		
RPI:INSTALL KITS Group A (Guard)	66 / 0.958	- / -	33 / 0.505	33 / 0.505	- / -	33 / 0.505	28 / 0.442	- / -	- / -	- / -	- / -	160 / 2.410		
RPI:INSTALL KITS Group A (Reserve)	24 / 0.349	- / -	12 / 0.207	12 / 0.207	- / -	12 / 0.207	8 / 0.127	- / -	- / -	- / -	- / -	56 / 0.890		
<i>Subtotal: Recurring</i>	- / 2.178	- / -	- / 1.184	- / 1.184	- / -	- / 1.184	- / 0.932	- / -	- / -	- / -	- / -	- / 5.478		
B Kits														
Recurring														
RPI:EQUIPMENT Group B (Active)	30 / 0.237	- / -	30 / 0.240	30 / 0.246	- / -	30 / 0.246	23 / 0.252	23 / 0.193	- / -	- / -	- / -	136 / 1.168		
RPI:EQUIPMENT Group B (Guard)	33 / 0.260	- / -	33 / 0.264	33 / 0.270	- / -	33 / 0.270	26 / 0.277	17 / 0.143	- / -	- / -	- / -	142 / 1.214		
RPI:EQUIPMENT Group B (Reserve)	12 / 0.095	- / -	12 / 0.096	12 / 0.098	- / -	12 / 0.098	8 / 0.100	- / -	- / -	- / -	- / -	44 / 0.389		
<i>Subtotal: Recurring</i>	- / 0.592	- / -	- / 0.600	- / 0.614	- / -	- / 0.614	- / 0.629	- / 0.336	- / -	- / -	- / -	- / 2.771		
<i>Subtotal: RPI</i>	- / 2.770	- / -	- / 1.784	- / 1.798	- / -	- / 1.798	- / 1.561	- / 0.336	- / -	- / -	- / -	- / 8.249		
<i>Subtotal: Procurement, All Modification Items</i>	- / 2.770	- / -	- / 1.784	- / 1.798	- / -	- / 1.798	- / 1.561	- / 0.336	- / -	- / -	- / -	- / 8.249		
Support (All Modification Items)														
GROUP B: TOTAL NONRECURRING	- / 2.811	- / -	- / 1.425	- / 1.529	- / -	- / 1.529	- / 1.342	- / -	- / -	- / -	- / -	- / 17.107		
GROUP A: TOTAL NONRECURRING	- / 0.957	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.957		
Change Orders	- / 0.006	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.006		
Data	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.005		
SIM/TRAINER	19 / 2.464	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 2.464		
PSC - Contractor Services	- / 10.301	- / -	- / 0.854	- / 1.863	- / -	- / 1.863	- / 2.272	- / 0.830	- / 0.298	- / -	- / -	- / 16.418		
PSC - Other Gov't Costs	- / 1.029	- / 0.020	- / 0.026	- / -	- / -	- / -	- / 0.014	- / 0.020	- / -	- / -	- / -	- / 1.109		
OTHER GOVT	- / 1.292	- / -	- / -	- / 1.241	- / -	- / 1.241	- / -	- / -	- / -	- / -	- / -	- / 12.533		
<i>Subtotal: Support</i>	19 / 18.865	- / 0.020	- / 2.305	- / 4.633	- / -	- / 4.633	- / 3.628	- / 0.850	- / 0.298	- / -	- / -	19 / 30.599		
Installation														
<i>Modification Item 1 of 1:</i> RPI	- / -	- / -	53 / 2.090	75 / 2.855	- / -	75 / 2.855	75 / 2.930	57 / 2.241	62 / 2.543	- / -	- / -	322 / 12.659		
<i>Subtotal: Installation</i>	- / -	- / -	53 / 2.090	75 / 2.855	- / -	75 / 2.855	75 / 2.930	57 / 2.241	62 / 2.543	- / -	- / -	322 / 12.659		
Total														
Total Cost (Procurement + Support + Installation)	21.635	0.020	6.179	9.286	0.000	9.286	8.119	3.427	2.841	0.000	0.000	51.507		

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 9826 / Rudder Position Indicator (RPI)
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: RPI

Manufacturer Information

Manufacturer Name: Cherokee Nation Aerospace and Defense	Manufacturer Location: Stilwell, OK
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 11

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

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	- / -	- / -	53 / 2.090	22 / 0.837	- / -	22 / 0.837	- / -	- / -	- / -	- / -	- / -	75 / 2.927
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	53 / 2.018	- / -	53 / 2.018	22 / 0.859	- / -	- / -	- / -	- / -	75 / 2.877
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	53 / 2.071	22 / 0.865	- / -	- / -	- / -	75 / 2.936
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.376	22 / 0.903	- / -	- / -	57 / 2.279
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.640	- / -	- / -	40 / 1.640
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	53 / 2.090	75 / 2.855	- / -	75 / 2.855	75 / 2.930	57 / 2.241	62 / 2.543	- / -	- / -	322 / 12.659

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	0	-	-	-	-	1	14	19	19	19	19	19	18	19	19	19	18	19	19	19	-	19	19	19	5	-	-	-	-	0	322
Out	0	-	-	-	-	-	1	14	19	19	19	19	19	18	19	19	19	18	19	19	19	-	19	19	19	5	-	-	-	0	322

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 9827 / KC-135 AERO-I SATCOM replacement

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	15.989	6.274	1.782	19.243	0.000	19.243	7.269	0.100	0.000	0.000	-	50.657
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	15.989	6.274	1.782	19.243	0.000	19.243	7.269	0.100	0.000	0.000	-	50.657
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	15.989	6.274	1.782	19.243	0.000	19.243	7.269	0.100	0.000	0.000	-	50.657

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Replaces the current satellite service provider, INMARSAT, with Iridium because INMARSAT's end of service is projected to be 31 Dec 22. A different satellite service is required to provide the required communications path.

Global Air Traffic Management (GATM) ORD AMC 007-97-B, R&PC #11. The current satellite service, INMARSAT, end of service date is 31 Dec 2022. CDR, 30 Sep 2021.

359 KC-135 aircraft, FY 2022-FY 2026

FY 2023 Funding and Milestones: \$19.243M; A/B kit purchase - Sep 23, Contracted Field Team (CFT) installs, Programmed Depot Maintenance (PDM) installs.

Milestone/Development Status

Material Development Decision/Acquisition Strategy Panel completed Feb 19. Currently in integration phase. CFT and PDM installs begin 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	
AF	Quantity	-	-	-	-	-	-	-	-	
	Total Obligation Authority	3.407	0.582	14.297	-	14.297	2.549	0.100	0.000	0.000
AFNG	Quantity	-	-	-	-	-	-	-	-	
	Total Obligation Authority	1.611	0.704	2.659	-	2.659	2.643	0.000	0.000	-
AFR	Quantity	-	-	-	-	-	-	-	-	
	Total Obligation Authority	1.256	0.496	2.287	-	2.287	2.077	0.000	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	
Secondary Distribution	Total Obligation Authority	6.274	1.782	19.243	0.000	19.243	7.269	0.100	0.000	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C13500 / C-135						Modification Number / Title: 9827 / KC-135 AERO-I SATCOM replacement			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: KC-135				Modification Type: Reliability & Maintainability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Group B													
A Kits													
Recurring													
Group B:INSTALL KITS Group A (Active)	18 / 0.234	36 / 0.468	- / -	36 / 0.461	- / -	36 / 0.461	28 / 0.364	- / -	- / -	- / -	- / -	118 / 1.527	
Group B:INSTALL KITS Group A (Guard)	20 / 0.260	40 / 0.540	- / -	40 / 0.513	- / -	40 / 0.513	32 / 0.416	- / -	- / -	- / -	- / -	132 / 1.729	
Group B:INSTALL KITS Group A (Reserve)	17 / 0.221	34 / 0.442	- / -	34 / 0.456	- / -	34 / 0.456	24 / 0.312	- / -	- / -	- / -	- / -	109 / 1.431	
<i>Subtotal: Recurring</i>	- / 0.715	- / 1.450	- / -	- / 1.430	- / -	- / 1.430	- / 1.092	- / -	- / -	- / -	- / -	- / 4.687	
B Kits													
Recurring													
Group B:EQUIPMENT Group B (Active)	18 / 0.779	23 / 0.899	13 / 0.480	36 / 1.401	- / -	36 / 1.401	28 / 1.256	- / -	- / -	- / -	- / -	118 / 4.815	
Group B:EQUIPMENT Group B (Guard)	20 / 0.865	27 / 1.071	15 / 0.554	40 / 1.573	- / -	40 / 1.573	32 / 1.427	- / -	- / -	- / -	- / -	134 / 5.490	
Group B:EQUIPMENT Group B (Reserve)	17 / 0.735	20 / 0.814	12 / 0.442	34 / 1.316	- / -	34 / 1.316	24 / 1.085	- / -	- / -	- / -	- / -	107 / 4.392	
<i>Subtotal: Recurring</i>	- / 2.379	- / 2.784	- / 1.476	- / 4.290	- / -	- / 4.290	- / 3.768	- / -	- / -	- / -	- / -	- / 14.697	
<i>Subtotal: Group B</i>	- / 3.094	- / 4.234	- / 1.476	- / 5.720	- / -	- / 5.720	- / 4.860	- / -	- / -	- / -	- / -	- / 19.384	
<i>Subtotal: Procurement, All Modification Items</i>	- / 3.094	- / 4.234	- / 1.476	- / 5.720	- / -	- / 5.720	- / 4.860	- / -	- / -	- / -	- / -	- / 19.384	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 3.842	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 3.842	
GROUP A: TOTAL NONRECURRING	- / 0.000	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	
PSC - Contractor Services	- / 3.138	- / 1.614	- / -	- / 1.862	- / -	- / 1.862	- / -	- / -	- / -	- / -	- / -	- / 6.614	
OTHER GOVT	- / -	11 / 0.426	- / -	- / 3.133	- / -	- / 3.133	- / 0.027	- / 0.100	- / -	- / -	- / -	11 / 3.686	
Change Orders	- / 0.265	- / -	- / -	- / 1.686	- / -	- / 1.686	- / 0.100	- / -	- / -	- / -	- / -	- / 2.051	
SUPPORT-EQUIP	- / 0.650	- / -	- / -	- / 1.342	- / -	- / 1.342	- / 0.082	- / -	- / -	- / -	- / -	- / 2.074	
SIM/TRAINER	8 / 5.000	- / -	- / -	- / 3.874	- / -	- / 3.874	- / -	- / -	- / -	- / -	- / -	8 / 8.874	
<i>Subtotal: Support</i>	8 / 12.895	11 / 2.040	- / -	- / 11.897	- / -	- / 11.897	- / 0.209	- / 0.100	- / 0.000	- / 0.000	- / -	19 / 27.141	
Installation													
<i>Modification Item 1 of 1:</i> Group B	- / -	- / -	15 / 0.306	110 / 1.626	- / -	110 / 1.626	110 / 2.200	110 / 0.000	14 / 0.000	- / -	- / -	359 / 4.132	
<i>Subtotal: Installation</i>	- / -	- / -	15 / 0.306	110 / 1.626	- / -	110 / 1.626	110 / 2.200	110 / 0.000	14 / 0.000	- / -	- / -	359 / 4.132	
Total													
Total Cost (Procurement + Support + Installation)	15.989	6.274	1.782	19.243	0.000	19.243	7.269	0.100	0.000	0.000	-	50.657	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 9827 / KC-135 AERO-I SATCOM replacement

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

Manufacturer Information

Manufacturer Name: Collins Aerospace	Manufacturer Location: Midwest City, OK
Administrative Leadtime (in Months): 11	Production Leadtime (in Months): 2

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

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	15 / 0.306	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.306
FY 2022	- / -	- / -	- / -	35 / 0.906	- / -	35 / 0.906	- / -	- / -	- / -	- / -	- / -	35 / 0.906
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.700	- / -	- / -	- / -	- / -	35 / 0.700
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.000	14 / 0.000	- / -	- / -	49 / 0.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	15 / 0.306	35 / 0.906	- / -	35 / 0.906	35 / 0.700	35 / 0.000	14 / 0.000	- / -	- / -	134 / 1.912

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	0	0	0	0	0	0	0	0	15	8	9	9	9	8	9	9	9	8	9	9	9	8	6	-	-	-	-	-	-	0	134
Out	0	0	0	0	0	0	0	0	15	8	9	9	9	8	9	9	9	8	9	9	9	8	6	-	-	-	-	-	-	0	134

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 9827 / KC-135 AERO-I SATCOM replacement

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

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	- / -	- / -	- / -	55 / 0.528	- / -	55 / 0.528	- / -	- / -	- / -	- / -	- / -	55 / 0.528
FY 2021	- / -	- / -	- / -	20 / 0.192	- / -	20 / 0.192	35 / 0.729	- / -	- / -	- / -	- / -	55 / 0.921
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.602	- / -	- / -	- / -	- / -	5 / 0.602
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.169	40 / 0.000	- / -	- / -	- / -	75 / 0.169
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.000	- / -	- / -	- / -	35 / 0.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	75 / 0.720	- / -	75 / 0.720	75 / 1.500	75 / 0.000	- / -	- / -	- / -	225 / 2.220

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	0	-	-	-	-	-	-	-	-	19	19	19	18	18	19	19	19	18	19	19	19	-	-	-	-	-	-	-	-	0	225
Out	0	-	-	-	-	-	-	-	-	19	19	19	18	18	19	19	19	18	19	19	19	-	-	-	-	-	-	-	-	0	225

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 9829 / MUOS Radios

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	25.039	0.000	25.039	18.464	28.591	21.233	62.462	0.000	155.789
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	25.039	0.000	25.039	18.464	28.591	21.233	62.462	0.000	155.789
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	25.039	0.000	25.039	18.464	28.591	21.233	62.462	0.000	155.789

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	5.014	-	-	5.014
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 9829, MUOS Radios, is a new start. Install Mobile User Objective System (MUOS) capable radios on Block 45 aircraft with Integrated Waveform capability and SATURN backward capability for Line of Sight. ARC_210 Gen 3 radios on KC-135 will be obsolete Oct 1, 2023.

AF Form 1067 for 10-050 Crypto, 15-046 MUOS, 16-053 SATURN, and 17-039 IW.

300 KC-135 Aircraft in FY 2023-FY 2028

RDT&E Contract Award 17 Feb 22.

FY 2023 Funding and Milestones: \$25.039M; A/B Kit, installation protection assets.

Milestone/Development Status

This program will begin its integration effort in FY 2022. Installations to be conducted by Combined Flight Test (CFT) from 4QFY24 FY 2028.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	17.173	-	17.173	11.579	19.600	11.657	57.728
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	6.003	-	6.003	5.238	6.858	7.308	3.573
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.863	-	1.863	1.647	2.133	2.268	1.161
Total:	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 9829 / MUOS Radios
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	-	-	25.039	0.000	25.039	18.464	28.591	21.233	62.462

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C13500 / C-135					Modification Number / Title: 9829 / MUOS Radios			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: KC-135				Modification Type: Capability Improvement				Related RDT&E PEs: 0401218F					
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)	
RDT&E PE #													
0401218F	- / -	- / -	- / -	- / 3.795	- / -	- / 3.795	- / -	- / -	- / -	- / -	- / -	- / 3.795	
Procurement													
Modification Item 1 of 2: COMMON: Group A													
A Kits													
Recurring													
COMMON: Group A:INSTALL KITS Group A (Active)	- / -	- / -	- / -	37 / 0.999	- / -	37 / 0.999	26 / 0.702	37 / 0.999	37 / 0.999	12 / 0.324	- / -	149 / 4.023	
COMMON: Group A:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	29 / 0.783	- / -	29 / 0.783	19 / 0.513	29 / 0.783	29 / 0.783	9 / 0.243	- / -	115 / 3.105	
COMMON: Group A:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	9 / 0.243	- / -	9 / 0.243	6 / 0.162	9 / 0.243	9 / 0.243	3 / 0.081	- / -	36 / 0.972	
Subtotal: Recurring	- / -	- / -	- / -	- / 2.025	- / -	- / 2.025	- / 1.377	- / 2.025	- / 2.025	- / 0.648	- / -	- / 8.100	
Subtotal: COMMON: Group A	- / -	- / -	- / -	- / 2.025	- / -	- / 2.025	- / 1.377	- / 2.025	- / 2.025	- / 0.648	- / -	- / 8.100	
Modification Item 2 of 2: Group B (2)													
B Kits													
Recurring													
Group B:EQUIPMENT Group B (Active)	- / -	- / -	- / -	37 / 6.660	- / -	37 / 6.660	26 / 4.680	37 / 6.660	37 / 6.660	12 / 2.160	- / -	149 / 26.820	
Group B:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	29 / 5.220	- / -	29 / 5.220	19 / 3.420	29 / 5.220	29 / 5.220	9 / 1.620	- / -	115 / 20.700	
Group B:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	9 / 1.620	- / -	9 / 1.620	6 / 1.080	9 / 1.620	9 / 1.620	3 / 0.540	- / -	36 / 6.480	
Subtotal: Recurring	- / -	- / -	- / -	- / 13.500	- / -	- / 13.500	- / 9.180	- / 13.500	- / 13.500	- / 4.320	- / -	- / 54.000	
Subtotal: Group B (2)	- / -	- / -	- / -	- / 13.500	- / -	- / 13.500	- / 9.180	- / 13.500	- / 13.500	- / 4.320	- / -	- / 54.000	
Subtotal: Procurement, All Modification Items	- / -	- / -	- / -	- / 15.525	- / -	- / 15.525	- / 10.557	- / 15.525	- / 15.525	- / 4.968	- / -	- / 62.100	
Support (All Modification Items)													
ICS-Material	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.251	- / -	- / 0.251	
Change Orders	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.260	- / 0.120	- / -	- / -	- / 0.380	
SUPPORT-EQUIP	- / -	- / -	- / -	- / 2.214	- / -	- / 2.214	- / 3.307	- / 2.520	- / -	- / 4.473	- / -	- / 12.514	
SIM/TRAINER	- / -	- / -	- / -	- / 5.260	- / -	- / 5.260	- / 0.090	- / 5.260	- / -	- / -	- / -	- / 10.610	
OTHER GOVT	- / -	- / -	- / -	- / 10.178	- / -	- / 10.178	- / 10.135	- / 10.151	- / 10.350	- / 4.810	- / -	- / 15.624	
PSC - Contractor Services	- / -	- / -	- / -	- / 1.862	- / -	- / 1.862	- / 1.000	- / 2.580	- / 1.863	- / 4.505	- / -	- / 15.810	
Subtotal: Support	- / -	- / -	- / -	- / 9.514	- / -	- / 9.514	- / 4.532	- / 10.771	- / 2.333	- / 53.039	- / -	- / 80.189	
Installation													
Modification Item 2 of 2: Group B (2)	- / -	- / -	- / -	- / -	- / -	- / -	75 / 3.375	51 / 2.295	75 / 3.375	75 / 4.455	24 / 0.000	300 / 13.500	
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	75 / 3.375	51 / 2.295	75 / 3.375	75 / 4.455	24 / -	300 / 13.500	
Total													

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C13500 / C-135						Modification Number / Title: 9829 / MUOS Radios		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: KC-135				Modification Type: Capability Improvement				Related RDT&E PEs: 0401218F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total Cost (Procurement + Support + Installation)	-	-	-	25.039	0.000	25.039	18.464	28.591	21.233	62.462	0.000	155.789

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: C13500 / C-135			Modification Number / Title: 9829 / MUOS Radios	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 2: COMMON: Group A							
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): Org/Intermediate						Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022																				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C13500 / C-135						Modification Number / Title: 9829 / MUOS Radios																				
ID Code (A=Service Ready, B=Not Service Ready) : B											MDAP/MAIS Code:																				
Modification Item 2 of 2: Group B (2)																															
Manufacturer Information																															
Manufacturer Name: TBD											Manufacturer Location: TBD																				
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								Jan 2023			Jan 2024			Jan 2025			Jan 2026			Jan 2027											
Delivery Dates								Jan 2024			Jan 2025			Jan 2026			Jan 2027			Jan 2028											
Installation Information																															
Method of Implementation: Contract Field Team																															
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)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -							
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -							
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -							
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 3.375	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 3.375							
FY 2024		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 2.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 2.295							
FY 2025		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 3.375	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 3.375							
FY 2026		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 3.375							
FY 2027		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 1.080							
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.000							
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 3.375	51 / 2.295	75 / 3.375	75 / 3.375	75 / 3.375	75 / 3.375	75 / 3.375	75 / 3.375	75 / 3.375	75 / 3.375	75 / 3.375	24 / 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	0	-	-	-	-	-	-	-	-	-	-	-	-	18	19	19	19	13	13	12	13	19	19	19	18	19	19	19	18	24	300
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	18	19	19	19	13	13	12	13	19	19	19	18	19	19	19	18	24	300

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 9831 / COMM2 Crypto and Data

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	22.217	0.000	22.217	12.600	0.000	0.000	0.000	0.000	34.817
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	22.217	0.000	22.217	12.600	0.000	0.000	0.000	0.000	34.817
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	22.217	0.000	22.217	12.600	0.000	0.000	0.000	0.000	34.817

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 9831, COMM2 Crypto and Data, is a new start.

Replaces legacy COMM 2 ARC-210 Gen 3 and VHF Datalink (VDL) 2000 with modern radio with new crypto and SATURN capes, and VDL solution that modernizes COMM 2 data links. COMM2 Crypto and Data mod enables Line of Sight secure voice thru 2040.

AF Form 1067 for 10-050 Crypto, 16-053 SATURN. ARC-210 Gen 3 radios on KC-135 will be obsolete Oct 1, 2023 and two VDL-2000s will be obsolete in 2028 timeframe.

316 KC-135 Aircraft, FY 2023 - FY 2028

FY23 Funding and Milestones: \$22.217M, installation protection assets

Milestone/Development Status

This program will begin its integration effort in FY 2023. Installations to be conducted by Combined Flight Test (CFT) from FY 2024 - FY 2028.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	13.442	-	13.442	6.555	0.000	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	6.525	-	6.525	4.590	0.000	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	2.250	-	2.250	1.455	0.000	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	22.217	0.000	22.217	12.600	0.000	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C13500 / C-135						Modification Number / Title: 9831 / COMM2 Crypto and Data			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: KC-135				Modification Type: Capability Improvement				Related RDT&E PEs: 0401218F					
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)	
RDT&E PE #													
0401218F	- / -	- / -	- / -	- / 4.800	- / -	- / 4.800	- / 7.000	- / -	- / -	- / -	- / -	- / 11.800	
Procurement													
Modification Item 1 of 2: COMMON: Group A (2)													
A Kits													
Recurring													
COMMON: Group A:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.920	- / -	- / -	- / -	- / -	48 / 1.920	
COMMON: Group A:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	39 / 1.560	- / -	- / -	- / -	- / -	39 / 1.560	
COMMON: Group A:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.520	- / -	- / -	- / -	- / -	13 / 0.520	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.000	- / -	- / -	- / -	- / -	- / 4.000	
Subtotal: COMMON: Group A (2)	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.000	- / -	- / -	- / -	- / -	- / 4.000	
Modification Item 2 of 2: Group B (3)													
B Kits													
Recurring													
Group B:EQUIPMENT Group B (Active)	- / -	- / -	- / -	36 / 8.100	- / -	36 / 8.100	12 / 2.700	- / -	- / -	- / -	- / -	48 / 10.800	
Group B:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	29 / 6.525	- / -	29 / 6.525	10 / 2.250	- / -	- / -	- / -	- / -	39 / 8.775	
Group B:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	10 / 2.250	- / -	10 / 2.250	3 / 0.675	- / -	- / -	- / -	- / -	13 / 2.925	
Subtotal: Recurring	- / -	- / -	- / -	- / 16.875	- / -	- / 16.875	- / 5.625	- / -	- / -	- / -	- / -	- / 22.500	
Subtotal: Group B (3)	- / -	- / -	- / -	- / 16.875	- / -	- / 16.875	- / 5.625	- / -	- / -	- / -	- / -	- / 22.500	
Subtotal: Procurement, All Modification Items	- / -	- / -	- / -	- / 16.875	- / -	- / 16.875	- / 9.625	- / -	- / -	- / -	- / -	- / 26.500	
Support (All Modification Items)													
SUPPORT-EQUIP	- / -	- / -	- / -	- / 12.937	- / -	- / 12.937	- / -	- / -	- / -	- / -	- / -	- / 12.937	
Change Orders	- / -	- / -	- / -	- / 10.200	- / -	- / 10.200	- / -	- / -	- / -	- / -	- / -	- / 10.200	
OTHER GOVT	- / -	- / -	- / -	- / 12.205	- / -	- / 12.205	- / 0.975	- / -	- / -	- / -	- / -	- / 13.180	
Subtotal: Support	- / -	- / -	- / -	- / 35.342	- / -	- / 35.342	- / 0.975	- / -	- / -	- / -	- / -	- / 49.117	
Installation													
Modification Item 2 of 2: Group B (3)	- / -	- / -	- / -	- / -	- / -	- / -	75 / 2.000	25 / 0.000	- / -	- / -	- / -	100 / 2.000	
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	75 / 2.000	25 / -	- / -	- / -	- / -	100 / 2.000	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	22.217	0.000	22.217	12.600	0.000	0.000	0.000	0.000	34.817	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: C13500 / C-135			Modification Number / Title: 9831 / COMM2 Crypto and Data	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 2: COMMON: Group A (2)							
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): Org/Intermediate					Installation Quantity: 0		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 9831 / COMM2 Crypto and Data
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 2 of 2: Group B (3)

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD

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			Jan 2023	Jan 2024			
Delivery Dates			Jan 2024	Jan 2025			

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	75 / 1.500	- / -	- / -	- / -	- / -	75 / 1.500
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.500	25 / 0.000	- / -	- / -	- / -	25 / 0.500
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	75 / 2.000	25 / 0.000	- / -	- / -	- / -	100 / 2.000

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	0	-	-	-	-	-	-	-	-	0	0	0	0	18	19	19	19	7	6	6	6	-	-	-	-	-	-	-	-	0	100
Out	0	-	-	-	-	-	-	-	-	0	0	0	0	18	19	19	19	7	6	6	6	-	-	-	-	-	-	-	-	0	100

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: CALL00 / Compass Call
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207253F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	611.612	180.983	195.098	16.630	-	16.630	144.266	93.806	101.417	193.098	0.000	1,536.910
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	611.612	180.983	195.098	16.630	-	16.630	144.266	93.806	101.417	193.098	0.000	1,536.910
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	611.612	180.983	195.098	16.630	-	16.630	144.266	93.806	101.417	193.098	0.000	1,536.910

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	10.985	65.624	1.982	-	1.982	85.950	13.824	22.170	17.271	-	217.806
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Compass Call is the Air Force's wide-area, standoff, Airborne Electromagnetic Attack (AEA) Command and Control Warfare/Information Operations (C2W/IO) weapon system. The employment of this weapon system interrupts the adversary's use of the electromagnetic battlespace and is a key active component in the information battlespace and prosecution of Overseas Contingency Operations (OCO). Compass Call's sophisticated electromagnetic attack system is capable of surgical denial and/or disruption of adversary Radio Frequency (RF) communications, radar and sensor systems. Procurement funds are required for modification kit production (hardware, firmware, and software), installation, certification and test on an EC-37B re-host platform in accordance with the Baseline upgrade schedule.

The current Compass Call program of record as of the end of Q2 FY2022 includes the following resources: seven (7) Primary Mission Aircraft Inventory (PMAI), Combat Support coded (CA) EC-130H aircraft, one (1) Backup Aircraft Inventory (BAI), Training coded (TF) TC-130H trainer aircraft, one (1) EC-130H Weapon System Trainer (WST, flight deck simulator), and two (2) Compass Call Mission Crew Simulators (CCMCS). Seven (7) EC-130H aircraft have been divested between FY2018 and FY2022. One (1) EC-130H aircraft will retire in Q4 FY2023. One (1) more EC-130H is due to retire in Q1 FY2024. Due to the age of the EC-130H fleet (average is 47 years) the re-hosting of the Prime Mission Equipment (PME) is crucial to ensuring the survival of this critical capability.

The re-hosted Compass Call platform is based on a commercially-available modified G550 aircraft that already holds Federal Aviation Administration (FAA) Supplemental Type Certificates (STCs) for airworthiness. The platform will undergo modifications to host Compass Call's PME and antenna arrays and receive additional STCs and Military Type Certificates (MTCs). The EC-37B aircraft utilize PME harvested from the EC-130H aircraft and upgraded to the latest Baseline. The EC-37B program is highly concurrent with developmental and procurement activities occurring in parallel.

The EC-37B program of record procured six (6) new commercial derivative aircraft. As part of the FY2023 Presidents budget, EC-37B total procurement has been reduced from 10 to 6 aircraft. The first five (5) EC-37B aircraft, procured in FY2017-FY2020, will be configured with Baseline 3 (BL3) PME. The sixth and final EC-37B aircraft, procured in FY2021, will be the first Baseline 4 (BL4) configured aircraft. The BL3 aircraft are planned to be modified to the BL4 configuration with modification installs starting in FY2026.

Procurement and installation of the PME modification kits onto the air vehicle is performed under line item CALL00/Modification Number 1003. Procurement of the air vehicles for re-host was performed under the Aircraft Procurement, Air Force appropriation, Budget Activity 04, Budget Sub Activity 05 under P-1 line item CALL00/COMPASS CALL. Modification of the EC-130H aircraft is performed under line item CALL00/Modification Number 1001.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: CALL00 / Compass Call
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207253F
Line Item MDAP/MAIS Code: N/A		

Funding for this exhibit is contained in PE 0207253F.

Compass Call modification efforts include, but are not limited to, activities associated aircraft system integration, assembly, test and checkout; change management; engineering change orders; certification; non-developmental mission system upgrades, external communications upgrades, software integration and updates, systems engineering, test and evaluation, training, support equipment, and Program Support Costs (PSC). This activity also includes EC-37B aircraft PME retrofits. Baseline upgrades and enhancements will also include necessary support equipment, training device/simulator modifications, test and test support activities (planning, integration). The simulators provide for the training and qualification of aircrew and ground personnel as well as address training obsolescence issues.

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
CALL00 / Compass Call

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207253F

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-40a***	1001 / COMPASS CALL (Capability Improvement)				- / 36.366	- / 11.300	- / -	- / -	- / -	- / -
P-3a	1003 / COMPASS CALL Baseline Modifications (Capability Improvement)		A		- / 575.246	- / 169.683	- / 195.098	- / 16.630	- / 0.000	- / 16.630
P-40	Total Gross/Weapon System Cost				- / 611.612	- / 180.983	- / 195.098	- / 16.630	- / -	- / 16.630

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-40a***	1001 / COMPASS CALL (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 47.666
P-3a	1003 / COMPASS CALL Baseline Modifications (Capability Improvement)		A		- / 144.266	- / 93.806	- / 101.417	- / 193.098	- / 0.000	- / 1,489.244
P-40	Total Gross/Weapon System Cost				- / 144.266	- / 93.806	- / 101.417	- / 193.098	- / 0.000	- / 1,536.910

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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:
Where applicable, justification for individual modifications is provided in the P-3A exhibits.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: CALL00 / Compass Call	Modification Number / Title: 1003 / COMPASS CALL Baseline Modifications

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	575.246	169.683	195.098	16.630	0.000	16.630	144.266	93.806	101.417	193.098	0.000	1,489.244
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	575.246	169.683	195.098	16.630	0.000	16.630	144.266	93.806	101.417	193.098	0.000	1,489.244
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	575.246	169.683	195.098	16.630	0.000	16.630	144.266	93.806	101.417	193.098	0.000	1,489.244

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	66.321	10.985	65.624	1.982	-	1.982	85.950	13.824	22.170	17.271	-	284.127
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Compass Call capability is the USAF's premier wide-area coverage Airborne Electromagnetic Attack (AEA) Offensive Counter Information (OCI) weapon system. In order to ensure continued tactical effectiveness, Compass Call's Prime Mission Equipment (PME) must evolve to keep pace with emerging adversary developments in communications, radar, and sensor technology as well as the use of rapidly advancing commercial communications technology. To meet this challenge, the Compass Call program employs an incremental Baseline upgrade acquisition strategy that puts capability into the warfighter's hands as soon as practical and ensures each iteration of the weapon system is effective against the highest priority threats. Capabilities inserted into each Baseline are planned in advance, based on warfighter inputs. Procurement funds are required for modification kit production (hardware, firmware, and software, procurement of system integration lab components, installation, certification, and test) on a re-host platform in accordance with the Baseline upgrade schedule.

Re-hosting the EC-130H onto the EC-37B effort consists of the purchase of aircraft plus the reuse of legacy EC-130H PME hardware upgraded to the latest Baseline. The EC-37B program of record procured six (6) new commercial derivative aircraft. As part of the FY2023 Presidents budget, EC-37B procurement has been reduced from 10 to 6 aircraft total. The first five (5) EC-37B aircraft, procured in FY2017-FY2020, will be configured with Baseline 3 (BL3) PME. The sixth and final EC-37B aircraft, procured in FY2021, will be the first Baseline 4 (BL4) configured aircraft. The BL3 aircraft are planned to be modified to the BL4 configuration with modification installs starting in FY2026.

The FY2022 to FY2023 decrease in funding is due to the FY2022 procurement of the BL4 CCMCS as well as the procurement of the aircraft 6 PME install and modification, BL4 NRE, BL4 mini-SIL PME, aircraft support equipment, and test support activities. Additionally, it is due to a reduction in FY2023 program funding in order to cover higher AF priorities.

Compass Call BL3 includes, but not limited to, the repackaging and integration of legacy EC-130H capabilities into the smaller, more capable EC-37B airframe. The EC-37B provides better aircraft performance and supportability as well as updates to the mission system while addressing diminishing manufacturing sources (DMS). Incremental low band has been added to the BL3 configuration. The BL4 upgrade includes, but is not limited to, System-Wide Open Reconfigurable Dynamic Architecture (SWORD-A) which improves mission system flexibility and enables rapid capability integration.

FY2023 Compass Call procurement efforts include BL3 and BL4 integration and test activities, BL3 and BL4 integration non-recurring engineering (NRE), support equipment, simulator modification activities, obsolescence resolution, implementation of BL3 and BL4 weapon system change management, and program support costs (PSC) requirements.

Procurement activities associated with PME Group A and Group B Recurring (RE) include procurement of Group A kits and Group B line replaceable units (LRUs). Group A is defined as the racks, harnesses, and consoles that house PME LRUs as well as the cabling that interfaces PME with the aircraft. Group B is composed of individual militarily useable LRUs and associated cabling that process the signal environment and generate electromagnetic attack signals in response.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: CALL00 / Compass Call	Modification Number / Title: 1003 / COMPASS CALL Baseline Modifications
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<p>Group A and Group B NRE activities include those associated with generating/implementing change orders, BL3 PME integration and test, and NRE required to integrate the BL4 PME onto the aircraft.</p> <p>Install activities include those associated with installing the Group A and Group B PME onto the aircraft and modifying the aircraft to a final EC-37B configuration. In FY2021, the program was marked, citing aircraft installation delays, preventing purchase of the install in FY2021 for Aircraft #6. As a result, in FY2022, the program is procuring the installation for Aircraft #6.</p> <p>Support equipment activities include those associated with procuring aircraft and PME support equipment and upgrading existing PME and aircraft support equipment required for test and fielding.</p> <p>Simulator and trainer activities include updates to the Compass Call Mission Crew Simulator (CCMCS) to align with PME baseline upgrades, training materials, and training events. The Compass Call program has only one simulator per fielded baseline. The BL1 CCMCS is being upgraded to the BL3 configuration, and the MBL2 CCMCS will be upgraded to the BL4 configuration with procurement activities occurring in in FY2022.</p> <p>PSC includes funding for advisory and assistance services (A&AS), consultants, system engineering support, travel, and other program administration requirements as needed. As the program continues to grow and concurrently manage two (2) EC-37B configurations, PSC is expected to increase annually.</p> <p>Funding for this exhibit is contained in PE 0207253F.</p> <p>Milestone/Development Status</p> <p>The Compass Call weapon system is continuously improved using a rapid development and acquisition process supporting a Baseline upgrade strategy. User needs and technology opportunities are continuously reviewed. The Compass Call BL3 configuration will begin initial fielding in FY2024. The Compass Call BL4 configuration completed Preliminary Design Review (PDR) in Q2 FY2021, a Delta PDR in Q3 FY2021, and is planned to complete Critical Design Review (CDR) in Q1 FY2023.</p>		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: CALL00 / Compass Call					Modification Number / Title: 1003 / COMPASS CALL Baseline Modifications			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Models of Systems Affected: EC-37B			Modification Type: Capability Improvement				Related RDT&E PEs: 0207253F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> COMPASS CALL MODS												
A Kits												
Recurring												
COMPASS CALL MODS:INSTALL KITS Group A (Active)	4 / 46.349	2 / 18.638	- / -	- / -	- / -	- / -	1 / 15.474	1 / 15.734	1 / 16.134	1 / 16.423	- / -	10 / 128.752
<i>Subtotal: Recurring</i>	- / 46.349	- / 18.638	- / -	- / -	- / -	- / -	- / 15.474	- / 15.734	- / 16.134	- / 16.423	- / -	- / 128.752
B Kits												
Recurring												
COMPASS CALL MODS:EQUIPMENT Group B (Active)	5 / 191.086	1 / 46.975	- / -	- / -	- / -	- / -	1 / 36.075	1 / 36.335	1 / 36.735	1 / 37.100	- / -	10 / 384.306
<i>Subtotal: Recurring</i>	- / 191.086	- / 46.975	- / -	- / -	- / -	- / -	- / 36.075	- / 36.335	- / 36.735	- / 37.100	- / -	- / 384.306
<i>Subtotal: COMPASS CALL MODS</i>	- / 237.435	- / 65.613	- / -	- / -	- / -	- / -	- / 51.549	- / 52.069	- / 52.869	- / 53.523	- / -	- / 513.058
<i>Subtotal: Procurement, All Modification Items</i>	- / 237.435	- / 65.613	- / -	- / -	- / -	- / -	- / 51.549	- / 52.069	- / 52.869	- / 53.523	- / -	- / 513.058
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 81.491	- / 15.717	- / 20.749	- / 11.250	- / -	- / 11.250	- / 52.502	- / 21.467	- / 13.869	- / 20.793	- / -	- / 227.838
GROUP B: TOTAL NONRECURRING	- / 130.797	- / 55.598	- / 59.395	- / 19.649	- / -	- / 19.649	- / 31.626	- / 11.309	- / 6.030	- / 30.879	- / -	- / 335.283
PSC - Other Gov't Costs	- / 4.595	- / 2.920	- / 4.856	- / 4.645	- / -	- / 4.645	- / 5.100	- / 5.695	- / 5.369	- / 6.219	- / -	- / 39.399
SUPPORT-EQUIP	- / 30.976	- / 19.008	- / 38.871	- / 10.575	- / -	- / 10.575	- / 2.980	- / 2.761	- / 2.641	- / 2.871	- / -	- / 100.683
SIM/TRAINER	1 / 24.366	- / 10.827	1 / 41.817	- / 10.511	- / -	- / 10.511	- / 0.509	- / 0.505	- / 0.500	- / 56.012	- / -	2 / 135.047
<i>Subtotal: Support</i>	1 / 272.225	- / 104.070	1 / 165.688	- / 16.630	- / -	- / 16.630	- / 92.717	- / 41.737	- / 28.409	- / 116.774	- / -	2 / 838.250
Installation												
<i>Modification Item 1 of 1:</i> COMPASS CALL MODS	4 / 65.586	1 / 0.000	1 / 29.410	- / -	- / -	- / -	- / -	- / -	1 / 20.139	1 / 22.801	2 / 0.000	10 / 137.936
<i>Subtotal: Installation</i>	4 / 65.586	1 / 0.000	1 / 29.410	- / -	- / -	- / -	- / -	- / -	1 / 20.139	1 / 22.801	2 / 0.000	10 / 137.936
Total												
Total Cost (Procurement + Support + Installation)	575.246	169.683	195.098	16.630	0.000	16.630	144.266	93.806	101.417	193.098	0.000	1,489.244

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: CALL00 / Compass Call	Modification Number / Title: 1003 / COMPASS CALL Baseline Modifications

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: COMPASS CALL MODS

Manufacturer Information

Manufacturer Name: L-3 Harris	Manufacturer Location: Waco, TX
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 9

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

Installation Information

Method of Implementation: Contractor Facility

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	4 / 65.586	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 65.586
FY 2021	- / -	1 / 0.000	1 / 29.410	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 29.410
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 20.139	- / -	- / -	1 / 20.139
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 22.801	- / -	1 / 22.801
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	1 / 0.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	1 / 0.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 65.586	1 / 0.000	1 / 29.410	- / -	- / -	- / -	- / -	- / -	1 / 20.139	1 / 22.801	2 / 0.000	10 / 137.936

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	4	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	2	10
Out	0	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	4	10	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: DARP01 / RC-135
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0305207F	Other Related Program Elements: 0305207F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,209.717	191.332	207.596	212.828	-	212.828	219.499	220.967	224.045	228.860	-	2,714.844
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,209.717	191.332	207.596	212.828	-	212.828	219.499	220.967	224.045	228.860	-	2,714.844
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,209.717	191.332	207.596	212.828	-	212.828	219.499	220.967	224.045	228.860	-	2,714.844

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	51.282	51.305	25.661	-	25.661	55.452	55.903	56.741	57.970	-	354.314
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The USAF's Manned Reconnaissance Systems program includes seventeen (17) RC-135V/W RIVET JOINT, three (3) RC-135S COBRA BALL and two (2) RC-135U COMBAT SENT mission aircraft performing Air Combat Command (ACC) operational missions. The RC-135V/W RIVET JOINT is the majority variant that drives the Baseline integration and modification upgrade strategy for the entire RC-135 fleet. Therefore, a significant amount of the modification budget is directly related to RIVET JOINT weapon system baseline strategy enhancements which subsequently transfer into the follow-on baseline strategy enhancements for the COBRA BALL and COMBAT SENT weapon systems.

RC-135 Viability Assessments in 2008, 2012, and 2019 reported that despite the fleet average airframe age (57 years) and accumulated flight hours (42,740) as of the end of FY 2018, the RC-135 should be able to continue to meet the user's needs by performing intended operations through at least 2050. Viability was assessed based on underlying analyses of reliability, maintainability, performance, corrosion, fatigue, architectural stability, safety and availability. The Viability Assessment also summarized that the RC-135 fleet has experienced significant improvements in reliability, maintainability and availability since FY 2001. The Program Manager attributes these improvements directly to the 645th Aeronautical Systems Group's (645 AESG) Baseline integration and spiral modification upgrade strategy and synergies gained with long-standing relationships with the RC-135 industry partners.

The RIVET JOINT Baseline integration efforts of Baselines 12 and 13 which started in early FY19, address the 2012 RC-135 Multi-Attribute Utility Assessment (MUA) that detailed operational effectiveness, cost and program analyses of the alternative weapon system configurations. The MUA determined that retaining and sustaining the RC-135V/W airframe offers the highest assessed weapons system utility (measured as a benefit of cost-to-risk ratio) over the 25-year assessment period.

Funding in FY23 through FY27 were increased due to changes in inflation rates.

Funding for this exhibit is contained in PE 0305207F.

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
DARP01 / RC-135

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0305207F **Other Related Program Elements:** 0305207F

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-40a***	4266 / CONSTANT PHOENIX (Capability Improvement)				- / 216.227	- / -	- / -	- / -	- / -	- / -
P-3a	2504 / COBRA BALL (Capability Improvement)		A		- / 38.381	- / 12.414	- / 12.656	- / 13.314	- / 0.000	- / 13.314
P-3a	4263 / RIVET JOINT (Capability Improvement)		A		- / 898.168	- / 168.952	- / 184.749	- / 188.808	- / 0.000	- / 188.808
P-3a	4265 / COMBAT SENT (Capability Improvement)		A		- / 56.941	- / 9.966	- / 10.191	- / 10.706	- / 0.000	- / 10.706
P-40	Total Gross/Weapon System Cost				- / 1,209.717	- / 191.332	- / 207.596	- / 212.828	- / -	- / 212.828

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-40a***	4266 / CONSTANT PHOENIX (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 216.227
P-3a	2504 / COBRA BALL (Capability Improvement)		A		- / 13.590	- / 13.851	- / 14.039	- / 14.310	- / -	- / 132.555
P-3a	4263 / RIVET JOINT (Capability Improvement)		A		- / 194.997	- / 195.994	- / 198.733	- / 203.059	- / -	- / 2,233.460
P-3a	4265 / COMBAT SENT (Capability Improvement)		A		- / 10.912	- / 11.122	- / 11.273	- / 11.491	- / -	- / 132.602
P-40	Total Gross/Weapon System Cost				- / 219.499	- / 220.967	- / 224.045	- / 228.860	- / -	- / 2,714.844

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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 procurement funding will concentrate on three major efforts: (1) continuing the conversion of RIVET JOINT Baseline 11 aircraft to Baseline 13 configuration, (2) continue the sustainment of RIVET JOINT Baseline 12, and (3) continue the autopilot upgrade. Ten RIVET JOINT aircraft are projected to receive the Baseline 13 configuration. During this same period, COMBAT SENT will complete integration and testing of Baseline 6 with the COBRA BALL continuing integration and testing of Baseline 7. The COMBAT SENT and COBRA BALL baselines closely align with RIVET JOINT Baseline 12. Additionally, FY23 procurement will ensure integration and fielding updates to the RC-135 ground systems, which include RIVET JOINT Ground Data Processing Systems (GDPS), Distributed Mission Shelters (DMS), Mission Crew Training Systems (MCTS), Airborne Capabilities Extension System (ACES) and Operational Flight Trainers (OFT). The ground systems are upgraded to remain consistent with the fielded aircraft configurations to allow for training and qualification of the aircrew and maintenance personnel assigned, plus verification and certification of software builds that are continuously modified to address the dynamic mission requirements of these weapons systems. Due to higher USAF priorities, \$13.842M of FY21 procurement funding was re-phased into FY22 and FY23 under RIVET JOINT.

Due to the changing threat and rapidly evolving near peer electromagnetic combat environment and conditions encountered during the RC-135's prolonged commitment to Overseas Contingency Operations (OCO), the acquisition program manager has the authority to redirect funding as necessary to meet current and emerging Combatant Commander and/or Intelligence Community requirements to better meet the war fighting objectives.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 2504 / COBRA BALL

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	38.381	12.414	12.656	13.314	0.000	13.314	13.590	13.851	14.039	14.310	-	132.555
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	38.381	12.414	12.656	13.314	0.000	13.314	13.590	13.851	14.039	14.310	-	132.555
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	38.381	12.414	12.656	13.314	0.000	13.314	13.590	13.851	14.039	14.310	-	132.555

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY23 procurement funding acquires and installs various upgrades and enhancement modifications for the three (3) RC-135S COBRA BALL aircraft performing Air Combat Command (ACC) directed operational missions. Due to the rapidly changing global threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Command (CCMD) and Intelligence Community (IC) requirements.

The Operational Requirements Document (ORD) addresses airframe, sensor, navigation, communications, data link, and processing requirements necessary to keep the RC-135 fleet viable through 2050. A Program Management Directive (PMD) provides direction to the 645th Aeronautical Systems Group (645 AESG) for the acquisition and sustainment of the weapons system, associated mission support equipment, and processing, exploitation and dissemination tools.

The RC-135S COBRA BALL program--Defense Airborne Reconnaissance Program (DARP)/Manned Reconnaissance Systems is managed in accordance with an incremental baseline upgrade acquisition strategy in order to maintain collection parity with evolving and emerging adversarial weapons systems utilized by state and non-state actors. The 645 AESG Baseline upgrade strategy requires purchase agreements for long-lead items that take approximately 10 to 12 months from contract award to delivery. Items required for integration in a given Baseline upgrade are contracted for purchase in the first year of the procurement funding cycle and are acquired and installed in the subsequent year. This acquisition strategy has been successful in maintaining critical combat capability in the Intelligence, Surveillance, and Reconnaissance (ISR) arena over the last 50 years.

FY23 procurement funding efforts will concentrate on the initiatives pertaining to completing the development, integration and fielding COBRA BALL Baseline 7 enhancements. Baseline 7 subsystem upgrades consist of, but are not limited to: Foreign Instrumentation Signals Intelligence (FISINT) Direction Finding and Digital Data Recording, Digital Search, Target Discrimination via SATCOM, and the integration of the RIVET JOINT Baseline 12 communications intelligence (COMINT) suite.

Funding in FY23 through FY27 were increased due to changes in inflation rates.

Funding for this exhibit contained in PE 0305207F.

Milestone/Development Status

FY23 procurement funding is associated with the acquisition, integration, and fielding of Baseline 7, as well as logistical support efforts for the Baseline 6 configuration upgrades and enhancements on the three (3) RC-135S COBRA BALL aircraft, their sensor systems, and associated ground support systems. These upgrades are attributed to the research and development efforts initiated in FY 2018 and FY 2019. These initiatives formed the basis for the RC-135S COBRA BALL fleet modification strategy.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: DARP01 / RC-135					Modification Number / Title: 2504 / COBRA BALL			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: RC-135S, TC-135W				Modification Type: Capability Improvement				Related RDT&E PEs: 0305207F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Baseline Upgrade													
A Kits													
Recurring													
Baseline Upgrade:INSTALL KITS Group A (Active)	5 / 7.721	1 / 3.127	1 / 3.190	1 / 3.359	- / -	1 / 3.359	1 / 3.431	1 / 3.497	1 / 3.544	1 / 3.613	- / -	12 / 31.482	
<i>Subtotal: Recurring</i>	- / 7.721	- / 3.127	- / 3.190	- / 3.359	- / -	- / 3.359	- / 3.431	- / 3.497	- / 3.544	- / 3.613	- / -	- / 31.482	
B Kits													
Recurring													
Baseline Upgrade:EQUIPMENT Group B (Active)	5 / 12.149	1 / 5.411	1 / 5.520	1 / 5.810	- / -	1 / 5.810	1 / 5.934	1 / 6.048	1 / 6.130	1 / 6.249	- / -	12 / 53.251	
<i>Subtotal: Recurring</i>	- / 12.149	- / 5.411	- / 5.520	- / 5.810	- / -	- / 5.810	- / 5.934	- / 6.048	- / 6.130	- / 6.249	- / -	- / 53.251	
<i>Subtotal: Baseline Upgrade</i>	- / 19.870	- / 8.538	- / 8.710	- / 9.169	- / -	- / 9.169	- / 9.365	- / 9.545	- / 9.674	- / 9.862	- / -	- / 84.733	
<i>Subtotal: Procurement, All Modification Items</i>	- / 19.870	- / 8.538	- / 8.710	- / 9.169	- / -	- / 9.169	- / 9.365	- / 9.545	- / 9.674	- / 9.862	- / -	- / 84.733	
Installation													
<i>Modification Item 1 of 1:</i> Baseline Upgrade													
	5 / 18.511	1 / 3.876	1 / 3.946	1 / 4.145	- / -	1 / 4.145	1 / 4.225	1 / 4.306	1 / 4.365	1 / 4.448	- / -	12 / 47.822	
<i>Subtotal: Installation</i>	5 / 18.511	1 / 3.876	1 / 3.946	1 / 4.145	- / -	1 / 4.145	1 / 4.225	1 / 4.306	1 / 4.365	1 / 4.448	- / -	12 / 47.822	
Total													
Total Cost (Procurement + Support + Installation)	38.381	12.414	12.656	13.314	0.000	13.314	13.590	13.851	14.039	14.310	-	132.555	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 2504 / COBRA BALL
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 1: Baseline Upgrade

Manufacturer Information

Manufacturer Name: L-3Harris Technologies Manufacturer Location: Greenville, TX

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 6

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	Jun 2021	Jun 2022	Jun 2023	Jun 2024	Jun 2025	Jun 2026	Jun 2027

Installation Information

Method of Implementation: Contractor Facility

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	5 / 18.511	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 18.511
FY 2021	- / -	1 / 3.876	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.876
FY 2022	- / -	- / -	1 / 3.946	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.946
FY 2023	- / -	- / -	- / -	1 / 4.145	- / -	1 / 4.145	- / -	- / -	- / -	- / -	- / -	1 / 4.145
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.225	- / -	- / -	- / -	- / -	1 / 4.225
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.306	- / -	- / -	- / -	1 / 4.306
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.365	- / -	- / -	1 / 4.365
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.448	- / -	1 / 4.448
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 18.511	1 / 3.876	1 / 3.946	1 / 4.145	- / -	1 / 4.145	1 / 4.225	1 / 4.306	1 / 4.365	1 / 4.448	- / -	12 / 47.822

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	5	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	0	12
Out	5	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	0	12

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 4263 / RIVET JOINT

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	898.168	168.952	184.749	188.808	0.000	188.808	194.997	195.994	198.733	203.059	-	2,233.460
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	898.168	168.952	184.749	188.808	0.000	188.808	194.997	195.994	198.733	203.059	-	2,233.460
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	898.168	168.952	184.749	188.808	0.000	188.808	194.997	195.994	198.733	203.059	-	2,233.460

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	178.707	51.282	51.305	25.661	-	25.661	55.452	55.903	56.741	57.970	-	533.021
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY23 procurement funding acquires and installs various upgrade and enhancement modifications for the seventeen (17) RC-135V/W RIVET JOINT aircraft performing Air Combat Command (ACC) directed operational missions. The enhancements will focus on improving the RC-135's ability to compete and deter in the near-peer environment across the range of military operations. Due to the rapidly changing global threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Command (CCMD) and Intelligence Community (IC) requirements. Due to higher Air Force priorities \$13.842M of FY21 procurement funding was re-phased into FY22 and FY23.

The Operational Requirements Document (ORD) addresses airframe, sensor, navigation, communications, data link, and processing requirements necessary to keep the RC-135 fleet viable through 2050. A Program Management Directive (PMD) provides direction to the 645th Aeronautical Systems Group (645 AESG) for the acquisition and sustainment of the weapons system, associated mission support equipment, and processing, exploitation and dissemination tools.

The RC-135V/W RIVET JOINT program -- Defense Airborne Reconnaissance Program (DARP)/Manned Reconnaissance Systems is managed in accordance with an incremental baseline upgrade acquisition strategy in order to maintain collection parity with an evolving threat environment. The 645 AESG's Baseline upgrade strategy requires purchase agreements for long lead items that take approximately 10 to 12 months from contract award to delivery. Items required for integration in a given Baseline upgrade are contracted and purchased in the first year of the procurement funding cycle and are acquired and installed in the next year. This acquisition strategy has been successful in maintaining critical combat capability in the Intelligence, Surveillance and Reconnaissance (ISR) arena over the last 50 years.

FY23 procurement funding will sustain fielded RIVET JOINT Baseline 12 configured aircraft but will also concentrate on fielding Baseline 13 aircraft. Baseline 13 subsystem upgrades consist of, but are not limited to: High Frequency (HF) search, Integral HF Direction Finding, Reconfigurable Collection Environment (RCE) Beamformer, RCE DF/Geolocation, Integral Wideband Recorder, Pulse Train processing, search-thru-jammer hardening, moving emitter geolocation and moving target fusion, improved wide band communication links. The program will continue Baseline 14 engineering and begin Baseline 14 integration and testing, and start procurement of long lead items.

Funding in FY23 through FY27 were increased due to changes in inflation rates.

Funding for this exhibit contained in PE 0305207F.

Milestone/Development Status

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 4263 / RIVET JOINT
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	
FY23 procurement funding is associated with acquisition, integration, fielding and logistical support efforts for the Baseline 13 configuration upgrades/enhancements on the RC-135V/W RIVET JOINT aircraft, sensor systems, and associated ground support systems. These upgrades are attributed to the research and development efforts initiated in FY17 and FY18. These initiatives formed the basis for the RC-135V/W RIVET JOINT fleet modification strategy.		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: DARP01 / RC-135					Modification Number / Title: 4263 / RIVET JOINT		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Models of Systems Affected: RC-135V, RC-135W, TC-135W				Modification Type: Capability Improvement				Related RDT&E PEs: 0305207F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: Baseline Upgrade (2)</i>												
A Kits												
Recurring												
Baseline Upgrade:INSTALL KITS Group A (Active)	20 / 590.662	4 / 105.958	4 / 120.355	4 / 121.157	- / -	4 / 121.157	4 / 125.995	4 / 125.680	4 / 127.425	4 / 130.371	- / -	48 / 1,447.603
<i>Subtotal: Recurring</i>	- / 590.662	- / 105.958	- / 120.355	- / 121.157	- / -	- / 121.157	- / 125.995	- / 125.680	- / 127.425	- / 130.371	- / -	- / 1,447.603
B Kits												
Recurring												
Baseline Upgrade:EQUIPMENT Group B (Active)	20 / 63.859	4 / 13.401	4 / 13.743	4 / 14.439	- / -	4 / 14.439	4 / 14.760	4 / 15.042	4 / 15.245	4 / 15.540	- / -	48 / 166.029
<i>Subtotal: Recurring</i>	- / 63.859	- / 13.401	- / 13.743	- / 14.439	- / -	- / 14.439	- / 14.760	- / 15.042	- / 15.245	- / 15.540	- / -	- / 166.029
<i>Subtotal: Baseline Upgrade (2)</i>	- / 654.521	- / 119.359	- / 134.098	- / 135.596	- / -	- / 135.596	- / 140.755	- / 140.722	- / 142.670	- / 145.911	- / -	- / 1,613.632
<i>Subtotal: Procurement, All Modification Items</i>	- / 654.521	- / 119.359	- / 134.098	- / 135.596	- / -	- / 135.596	- / 140.755	- / 140.722	- / 142.670	- / 145.911	- / -	- / 1,613.632
Support (All Modification Items)												
PMA - Other Gov't Costs	- / 6.562	- / 1.313	- / 1.468	- / 1.543	- / -	- / 1.543	- / 1.570	- / 1.603	- / 1.625	- / 1.656	- / -	- / 17.340
<i>Subtotal: Support</i>	- / 6.562	- / 1.313	- / 1.468	- / 1.543	- / -	- / 1.543	- / 1.570	- / 1.603	- / 1.625	- / 1.656	- / -	- / 17.340
Installation												
<i>Modification Item 1 of 1: Baseline Upgrade (2)</i>	20 / 237.085	4 / 48.280	4 / 49.183	4 / 51.669	- / -	4 / 51.669	4 / 52.672	4 / 53.669	4 / 54.438	4 / 55.492	- / -	48 / 602.488
<i>Subtotal: Installation</i>	20 / 237.085	4 / 48.280	4 / 49.183	4 / 51.669	- / -	4 / 51.669	4 / 52.672	4 / 53.669	4 / 54.438	4 / 55.492	- / -	48 / 602.488
Total												
Total Cost (Procurement + Support + Installation)	898.168	168.952	184.749	188.808	0.000	188.808	194.997	195.994	198.733	203.059	-	2,233.460

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 4263 / RIVET JOINT
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 1: Baseline Upgrade (2)

Manufacturer Information

Manufacturer Name: L3Harris Technologies Manufacturer Location: Greenville, TX

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 9

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	Sep 2021	Sep 2022	Sep 2023	Sep 2024	Sep 2025	Sep 2026	Sep 2027

Installation Information

Method of Implementation: Contractor Facility

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	20 / 237.085	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 237.085
FY 2021	- / -	4 / 48.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 48.280
FY 2022	- / -	- / -	4 / 49.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 49.183
FY 2023	- / -	- / -	- / -	4 / 51.669	- / -	4 / 51.669	- / -	- / -	- / -	- / -	- / -	4 / 51.669
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	4 / 52.672	- / -	- / -	- / -	- / -	4 / 52.672
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 53.669	- / -	- / -	- / -	4 / 53.669
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 54.438	- / -	- / -	4 / 54.438
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 55.492	- / -	4 / 55.492
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	20 / 237.085	4 / 48.280	4 / 49.183	4 / 51.669	- / -	4 / 51.669	4 / 52.672	4 / 53.669	4 / 54.438	4 / 55.492	- / -	48 / 602.488

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	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	48
Out	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	48

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 4265 / COMBAT SENT

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	56.941	9.966	10.191	10.706	0.000	10.706	10.912	11.122	11.273	11.491	-	132.602
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	56.941	9.966	10.191	10.706	0.000	10.706	10.912	11.122	11.273	11.491	-	132.602
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	56.941	9.966	10.191	10.706	0.000	10.706	10.912	11.122	11.273	11.491	-	132.602

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY23 procurement funding acquires and installs various upgrade and enhancement modifications for the two (2) RC-135U COMBAT SENT aircraft performing Air Combat Command (ACC) directed operational missions. Due to the rapidly changing global threat environment and technological advances of our adversaries, the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Command (CCMD) and Intelligence Community (IC) requirements.

The Operational Requirements Document (ORD) addresses airframe, sensor, navigation, communications, data link, and processing requirements necessary to keep the RC-135 fleet viable through 2050. A Program Management Directive (PMD) provides direction to the 645th Aeronautical Systems Group (645 AESG) for the acquisition and sustainment of the weapons system, associated mission support equipment, and processing, exploitation and dissemination tools.

The RC-135U COMBAT SENT program -- Defense Airborne Reconnaissance Program (DARP)/Manned Reconnaissance Systems) is managed in accordance with an incremental baseline upgrade acquisition strategy in order to maintain collection parity with the evolving threat environment. The 645 AESG's Baseline upgrade strategy requires purchase agreements for long-lead items that take approximately 12 months from contract award to delivery. Items required for integration in a given Baseline upgrade are contracted for purchase in the first year of the procurement funding cycle and are acquired and installed in the next year. This acquisition strategy has been successful in maintaining critical combat capability in the ISR arena over the last 50 years.

FY23 procurement funding efforts will concentrate on sustainment COMBAT SENT Baseline 6 and completion of the COMBAT SENT Baseline 6 enhancements respectively. Baseline 6 subsystem upgrades consist of, but are not limited to: Wideband collection, Scientific and Technical Processors, improved antennas, improved operator interface and reporting tools, sensor calibration/testing systems, integration of the RIVET JOINT Baseline 13 Communication Intelligence (COMINT) suite, and enhancing capabilities in dense signal environments. Initial BL 7 RF engineering and design efforts also begin in FY23.

Funding in FY23 through FY27 were increased due to changes in inflation rates.

Funding for this exhibit contained in PE 0305207F.

Milestone/Development Status

FY23 procurement funding is associated with the acquisition, integration, fielding and logistical support efforts for the Baseline 6 configuration upgrades/enhancements of the two (2) RC-135U COMBAT SENT aircraft, sensor systems, and associated ground support systems. These upgrades are attributed to the research and development efforts initiated in FY18 and FY19. These initiatives formed the basis for the RC-135U COMBAT SENT fleet modification strategy.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: DARP01 / RC-135					Modification Number / Title: 4265 / COMBAT SENT			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: RC-135U				Modification Type: Capability Improvement				Related RDT&E PEs: 0305207F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Baseline Upgrade (3)													
A Kits													
Recurring													
Baseline Upgrade:INSTALL KITS Group A (Active)	5 / 23.712	1 / 2.118	1 / 2.156	1 / 2.265	- / -	1 / 2.265	1 / 2.309	1 / 2.353	1 / 2.385	1 / 2.431	- / -	12 / 39.729	
<i>Subtotal: Recurring</i>	- / 23.712	- / 2.118	- / 2.156	- / 2.265	- / -	- / 2.265	- / 2.309	- / 2.353	- / 2.385	- / 2.431	- / -	- / 39.729	
B Kits													
Recurring													
Baseline Upgrade:EQUIPMENT Group B (Active)	5 / 5.371	1 / 1.141	1 / 1.161	1 / 1.220	- / -	1 / 1.220	1 / 1.243	1 / 1.267	1 / 1.284	1 / 1.308	- / -	12 / 13.995	
<i>Subtotal: Recurring</i>	- / 5.371	- / 1.141	- / 1.161	- / 1.220	- / -	- / 1.220	- / 1.243	- / 1.267	- / 1.284	- / 1.308	- / -	- / 13.995	
<i>Subtotal: Baseline Upgrade (3)</i>	- / 29.083	- / 3.259	- / 3.317	- / 3.485	- / -	- / 3.485	- / 3.552	- / 3.620	- / 3.669	- / 3.739	- / -	- / 53.724	
<i>Subtotal: Procurement, All Modification Items</i>	- / 29.083	- / 3.259	- / 3.317	- / 3.485	- / -	- / 3.485	- / 3.552	- / 3.620	- / 3.669	- / 3.739	- / -	- / 53.724	
Installation													
<i>Modification Item 1 of 1:</i> Baseline Upgrade (3)													
	5 / 27.858	1 / 6.707	1 / 6.874	1 / 7.221	- / -	1 / 7.221	1 / 7.360	1 / 7.502	1 / 7.604	1 / 7.752	- / -	12 / 78.878	
<i>Subtotal: Installation</i>	5 / 27.858	1 / 6.707	1 / 6.874	1 / 7.221	- / -	1 / 7.221	1 / 7.360	1 / 7.502	1 / 7.604	1 / 7.752	- / -	12 / 78.878	
Total													
Total Cost (Procurement + Support + Installation)	56.941	9.966	10.191	10.706	0.000	10.706	10.912	11.122	11.273	11.491	-	132.602	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 4265 / COMBAT SENT

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: Baseline Upgrade (3)

Manufacturer Information

Manufacturer Name: L3Harris Technologies	Manufacturer Location: Greenville, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 6

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	Jun 2021	Jun 2022	Jun 2023	Jun 2024	Jun 2025	Jun 2026	Jun 2027

Installation Information

Method of Implementation: Contractor Facility

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	5 / 27.858	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 27.858
FY 2021	- / -	1 / 6.707	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 6.707
FY 2022	- / -	- / -	1 / 6.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 6.874
FY 2023	- / -	- / -	- / -	1 / 7.221	- / -	1 / 7.221	- / -	- / -	- / -	- / -	- / -	1 / 7.221
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 7.360	- / -	- / -	- / -	- / -	1 / 7.360
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 7.502	- / -	- / -	- / -	1 / 7.502
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 7.604	- / -	- / -	1 / 7.604
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 7.752	- / -	1 / 7.752
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 27.858	1 / 6.707	1 / 6.874	1 / 7.221	- / -	1 / 7.221	1 / 7.360	1 / 7.502	1 / 7.604	1 / 7.752	- / -	12 / 78.878

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	5	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	0	12
Out	5	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	0	12

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: E00300 / E-3
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207417F	Other Related Program Elements: 0207417F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,097.816	107.328	91.301	54.247	-	54.247	28.257	32.344	0.811	0.829	0.000	1,412.933
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	0.000	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,097.816	107.328	91.301	54.247	-	54.247	28.257	32.344	0.811	0.829	0.000	1,412.933
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	0.000	0.000
Total Obligation Authority (<i>\$ in Millions</i>)	1,097.816	107.328	91.301	54.247	-	54.247	28.257	32.344	0.811	0.829	0.000	1,412.933

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	9.062	5.557	3.179	-	3.179	0.969	2.306	0.672	-	-	21.745
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The four-engine E-3 is a modified Boeing 707 airframe which carries airborne radar and provides all-altitude air surveillance, threat warning, and control of theater air forces. Totals include funding for Airborne Warning and Control System (AWACS) Upgrades. This line item funds modifications and may be used to address Diminishing Manufacturing Sources (DMS) issues for the overall E-3 weapon system to include aircraft, simulators, and training devices.

Life of Type (LoT) buy to procure parts for retrofit of Production jets.

Beginning in FY23, funding is decreased to align with reduced E-3 modification efforts due to the planned transition to the E-3 replacement.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
E00300 / E-3

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207417F **Other Related Program Elements:** 0207417F

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-40a***	50001T / BLOCK 40/45 UPGRADE (Capability Improvement)				- / 658.246	- / -	- / -	- / -	- / -	- / -
P-40a***	50002 / Communication Networking Upgrade (CNU) (Capability Improvement)				- / 2.879	- / 24.429	- / 5.418	- / 1.000	- / -	- / 1.000
P-40a***	50002T / AWACS Mode 5 Acceleration (Capability Improvement)				- / 1.907	- / 0.823	- / 1.068	- / -	- / -	- / -
P-40a***	7225 / NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF) (Capability Improvement)				- / 56.833	- / -	- / -	- / -	- / -	- / -
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)				- / 9.125	- / 0.700	- / 0.700	- / 0.165	- / -	- / 0.165
P-40a***	9707 / RM&A Mod (Reliability & Maintainability)				- / 22.622	- / 0.320	- / -	- / -	- / -	- / -
P-40a***	9716 / VERTICAL STABILIZER AND RUDDER (Reliability & Maintainability)				- / 1.816	- / -	- / -	- / -	- / -	- / -
P-40a***	9718 / IP-enabled Capability (IPEC) (Capability Improvement)				- / 112.772	- / 10.747	- / 17.246	- / -	- / -	- / -
P-40a***	99999XA / LOW COST MOD - AIRFRAME (Reliability & Maintainability)				- / 6.447	- / 1.999	- / 0.999	- / 0.250	- / -	- / 0.250
P-40a***	99999XB / LOW COST MOD - AVIONICS & MISSION SYSTEMS (Reliability & Maintainability)				- / 6.447	- / 1.999	- / 0.999	- / 0.250	- / -	- / 0.250
P-40a***	99999XC / Low Cost Mod - Communications (Reliability & Maintainability)				- / -	- / 1.999	- / 0.999	- / 0.250	- / -	- / 0.250
P-40a***	99999XD / Low Cost Mod - Human Systems (Reliability & Maintainability)				- / -	- / 1.999	- / 0.999	- / 0.250	- / -	- / 0.250
P-3a	9709 / E-3 DRAGON (Capability Improvement)		B		- / 218.722	- / 62.313	- / 62.873	- / 11.182	- / 0.000	- / 11.182
P-3a	9721 / AWACS Communications Integration Program (ACIP) (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 40.900	- / 0.000	- / 40.900
P-40	Total Gross/Weapon System Cost				- / 1,097.816	- / 107.328	- / 91.301	- / 54.247	- / -	- / 54.247

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-40a***	50001T / BLOCK 40/45 UPGRADE (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 658.246
P-40a***	50002 / Communication Networking Upgrade (CNU) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 33.726
P-40a***	50002T / AWACS Mode 5 Acceleration (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 3.798
P-40a***	7225 / NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 56.833
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)				- / 0.798	- / 0.798	- / 0.811	- / 0.829	- / -	- / 13.926
P-40a***	9707 / RM&A Mod (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 22.942

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
E00300 / E-3

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207417F **Other Related Program Elements:** 0207417F

Line Item MDAP/MAIS Code: N/A

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-40a***	9716 / VERTICAL STABILIZER AND RUDDER (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 1.816
P-40a***	9718 / IP-enabled Capability (IPEC) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 140.765
P-40a***	99999XA / LOW COST MOD - AIRFRAME (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 9.695
P-40a***	99999XB / LOW COST MOD - AVIONICS & MISSION SYSTEMS (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 9.695
P-40a***	99999XC / Low Cost Mod - Communications (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 3.248
P-40a***	99999XD / Low Cost Mod - Human Systems (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 3.248
P-3a	9709 / E-3 DRAGON (Capability Improvement)		B		- / 4.687	- / 0.000	- / 0.000	- / 0.000	- / -	- / 359.777
P-3a	9721 / AWACS Communications Integration Program (ACIP) (Capability Improvement)		B		- / 22.772	- / 31.546	- / 0.000	- / 0.000	- / -	- / 95.218
P-40	Total Gross/Weapon System Cost				- / 28.257	- / 32.344	- / 0.811	- / 0.829	- / 0.000	- / 1,412.933

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod 9721, AWACS Communications Integration Program (ACIP), is a new start.

Funding will continue to provide enhancements to E-3G sensors, Communication/Networking, Mission Computing, and Platform to maintain viable Battle Management Command and Control (BMC2) capability as long as needed and continues to address DMS and mandates.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00300 / E-3	Modification Number / Title: 9709 / E-3 DRAGON

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	218.722	62.313	62.873	11.182	0.000	11.182	4.687	0.000	0.000	0.000	-	359.777
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	218.722	62.313	62.873	11.182	0.000	11.182	4.687	0.000	0.000	0.000	-	359.777
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	218.722	62.313	62.873	11.182	0.000	11.182	4.687	0.000	0.000	0.000	-	359.777

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	14.174	5.858	3.886	-	-	-	-	-	-	-	-	23.918
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

E-3 DMS Replacement of Avionics for Global Operations and Navigation (DRAGON): DRAGON completes the Federal Aviation Administration (FAA), International Civil Aviation Organization (ICAO), and European Organization for the Safety of Air Navigation (EUROCONTROL) air traffic control mandated safety of flight capabilities. This program will provide the E-3 fleet with a cockpit upgrade, the flight instruments and other avionics for the Required Navigation Performance (RNP), and the surveillance and communication capabilities necessary to maintain continued critical unrestricted access to global airspace. Non-compliance will result in airspace restrictions and denials that will impact AWACS ability to support worldwide responses to situations requiring immediate on-scene BM/C2. DRAGON replaces the existing Diminishing Manufacturing Sources (DMS) Global Positioning System (GPS) Integrated Navigation System (GINS) with a modern Flight Management System (FMS) that will accommodate new capabilities including Mode 5 Identification Friend or Foe (IFF) and Joint Mission Planning System (JMPS). Also included as part of the modification is the addition of data link communications, voice and data link digital radios, and improved visual displays. Additionally, the acquisition of DRAGON flight simulators also contains DMS efforts which include removal of end-of-life software/hardware within simulator systems and move to a modular, common open system architecture that is sustainable and cyber resilient. The simulator effort also implements requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative. Emphasis on employment of Commercial-Off-The-Shelf (COTS) avionics is expected to lower cost, reduce the tech refresh cycle, and enhance life cycle management. DRAGON will provide development of support and test equipment needed for DRAGON production; DRAGON will also provide DMS and Interim Contractor Support (ICS) needed to support the DRAGON modified aircraft. The Engineering and Manufacturing Development (EMD) phase of DRAGON was executed as a Cooperative Program between the US and NATO. Production will be executed as a USAF only effort.

Milestone/Development Status

FY11-FY21 RDT&E funds support integration of the DRAGON requirements/flight simulator. EMD Contract Award: November 2011 Milestone B Approval: November 2011 Milestone C Approval: July 2017 LRIP Contract Award: 29 June 2017 FRP Contract Awards: Boeing Inc. 1 awarded 16 December 2020; FRP Collins Award 26 March 2021; FRP Boeing Inc. 2 Award 31 January 2022; Boeing Inc. 3 Award projected May 2022; Boeing Inc. 4 Award projected August 2022.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: E00300 / E-3						Modification Number / Title: 9709 / E-3 DRAGON		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: E-3B, E-3C				Modification Type: Capability Improvement				Related RDT&E PEs: 0207417F				
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)
RDT&E PE #												
0207417F	- / 392.747	- / 1.601	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 394.348
Procurement												
Modification Item 1 of 1: DRAGON												
A Kits												
Recurring												
DRAGON:INSTALL KITS Group A (Active)	9 / 25.399	4 / 8.281	2 / 5.621	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 39.301
<i>Subtotal: Recurring</i>	- / 25.399	- / 8.281	- / 5.621	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 39.301
B Kits												
Recurring												
DRAGON:EQUIPMENT Group B (Active)	9 / 51.977	4 / 12.907	2 / 7.403	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 72.287
<i>Subtotal: Recurring</i>	- / 51.977	- / 12.907	- / 7.403	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 72.287
<i>Subtotal: DRAGON</i>	- / 77.376	- / 21.188	- / 13.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 111.588
<i>Subtotal: Procurement, All Modification Items</i>	- / 77.376	- / 21.188	- / 13.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 111.588
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 35.498	- / 2.315	- / 4.653	- / 0.324	- / -	- / 0.324	- / -	- / -	- / -	- / -	- / -	- / 42.790
GROUP B: TOTAL NONRECURRING	- / 36.059	- / 8.483	- / 11.009	- / 0.626	- / -	- / 0.626	- / -	- / -	- / -	- / -	- / -	- / 46.177
Change Orders	- / 34.061	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.061
SIM/TRAINER	0 / 0.300	1 / 15.514	- / 6.400	- / 3.000	- / -	- / 3.000	- / -	- / -	- / -	- / -	- / -	1 / 25.214
ICS-Labor	- / 0.742	- / 2.210	- / 2.933	- / 1.656	- / -	- / 1.656	- / 1.689	- / -	- / -	- / -	- / -	- / 9.230
PMA - Contractor Services	- / 17.444	- / 12.124	- / 12.838	- / 12.254	- / -	- / 12.254	- / 12.300	- / -	- / -	- / -	- / -	- / 16.960
OTHER GOVT	- / 3.350	- / 1.541	- / 3.146	- / 0.489	- / -	- / 0.489	- / 0.504	- / -	- / -	- / -	- / -	- / 9.030
PMA - Other Gov't Costs	- / 11.221	- / 4.670	- / 9.520	- / 0.360	- / -	- / 0.360	- / 0.194	- / -	- / -	- / -	- / -	- / 25.965
<i>Subtotal: Support</i>	0 / 128.675	1 / 36.857	- / 30.499	- / 8.709	- / -	- / 8.709	- / 14.687	- / -	- / -	- / -	- / -	1 / 209.427
Installation												
Modification Item 1 of 1: DRAGON	4 / 12.671	2 / 4.268	8 / 19.350	1 / 2.473	- / -	1 / 2.473	0 / 0.000	- / -	- / -	- / -	- / -	15 / 38.762
<i>Subtotal: Installation</i>	4 / 12.671	2 / 4.268	8 / 19.350	1 / 2.473	- / -	1 / 2.473	0 / -	- / -	- / -	- / -	- / -	15 / 38.762
Total												
Total Cost (Procurement + Support + Installation)	218.722	62.313	62.873	11.182	0.000	11.182	4.687	0.000	0.000	0.000	-	359.777

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00300 / E-3	Modification Number / Title: 9709 / E-3 DRAGON
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: DRAGON

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Oklahoma City
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 18

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

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	4 / 12.671	2 / 4.268	3 / 7.256	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 24.195
FY 2021	- / -	- / -	4 / 9.676	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 9.676
FY 2022	- / -	- / -	1 / 2.418	1 / 2.473	- / -	1 / 2.473	0 / 0.000	- / -	- / -	- / -	- / -	2 / 4.891
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 12.671	2 / 4.268	8 / 19.350	1 / 2.473	- / -	1 / 2.473	0 / 0.000	- / -	- / -	- / -	- / -	15 / 38.762

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	4	1	-	-	-	1	-	1	1	2	1	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15
Out	1	1	-	-	1	2	-	-	-	1	-	2	1	2	-	-	1	2	-	1	-	-	-	-	-	-	-	-	-	0	15

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00300 / E-3	Modification Number / Title: 9721 / AWACS Communications Integration Program (ACIP)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	40.900	0.000	40.900	22.772	31.546	0.000	0.000	-	95.218
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	40.900	0.000	40.900	22.772	31.546	0.000	0.000	-	95.218
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	40.900	0.000	40.900	22.772	31.546	0.000	0.000	-	95.218

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	1.671	3.179	-	3.179	0.969	2.306	0.672	-	-	8.797
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 9721, AWACS Communications Integration Program (ACIP), is a new start. ACIP will provide Mobile User Objective System (MUOS) and Second Generation Anti-Jam Tactical UHF Radio for NATO (SATURN) capability by replacing the existing Have Quick II and DAMA SATCOM radios with new radios capable of communicating via the existing and additional military waveforms as a combined integration program

Milestone/Development Status

N/A

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: E00300 / E-3				Modification Number / Title: 9721 / AWACS Communications Integration Program (ACIP)					
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: E-3				Modification Type: Capability Improvement				Related RDT&E PEs: 0207417F					
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)	
RDT&E PE #													
0207417F	- / 1.357	- / 3.993	- / 51.710	- / 7.384	- / -	- / 7.384	- / -	- / -	- / -	- / -	- / -	- / 64.444	
Procurement													
<i>Modification Item 1 of 1: ACIP</i>													
A Kits													
Recurring													
ACIP:INSTALL KITS Group A (Active)	- / -	- / -	- / -	12 / 2.704	- / -	12 / 2.704	3 / 0.695	- / -	- / -	- / -	- / -	15 / 3.399	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 2.704	- / -	- / 2.704	- / 0.695	- / -	- / -	- / -	- / -	- / 3.399	
B Kits													
Recurring													
ACIP:EQUIPMENT Group B (Active)	- / -	- / -	- / -	12 / 22.356	- / -	12 / 22.356	3 / 5.640	- / -	- / -	- / -	- / -	15 / 27.996	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 22.356	- / -	- / 22.356	- / 5.640	- / -	- / -	- / -	- / -	- / 27.996	
<i>Subtotal: ACIP</i>	- / -	- / -	- / -	- / 25.060	- / -	- / 25.060	- / 6.335	- / -	- / -	- / -	- / -	- / 31.395	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 25.060	- / -	- / 25.060	- / 6.335	- / -	- / -	- / -	- / -	- / 31.395	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / 15.632	- / -	- / 15.632	- / 19.496	- / -	- / -	- / -	- / -	- / 15.128	
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 17.162	- / -	- / 17.162	- / 3.265	- / 20.404	- / -	- / -	- / -	- / 30.831	
Change Orders	- / -	- / -	- / -	- / 10.577	- / -	- / 10.577	- / 1.771	- / 1.598	- / -	- / -	- / -	- / 3.946	
ICS-Labor	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.698	- / 6.079	- / -	- / -	- / -	- / 7.777	
PMA - Contractor Services	- / -	- / -	- / -	- / 12.469	- / -	- / 12.469	- / 10.207	- / 3.465	- / -	- / -	- / -	- / 16.141	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 15.840	- / -	- / 15.840	- / 16.437	- / 31.546	- / -	- / -	- / -	- / 63.823	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	40.900	0.000	40.900	22.772	31.546	0.000	0.000	-	95.218	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: E00300 / E-3			Modification Number / Title: 9721 / AWACS Communications Integration Program (ACIP)	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: ACIP							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 14			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Nov 2023	Nov 2024			
Delivery Dates			Jan 2025	Jan 2026			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 15		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: E00400 / E-4
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0302015F	Other Related Program Elements: 0302015F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	164.540	44.140	19.081	5.973	-	5.973	20.618	38.828	43.063	43.996	0.000	380.239
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	164.540	44.140	19.081	5.973	-	5.973	20.618	38.828	43.063	43.996	0.000	380.239
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	164.540	44.140	19.081	5.973	-	5.973	20.618	38.828	43.063	43.996	0.000	380.239

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	0.339	0.346	0.352	-	0.352	0.358	0.365	-	-	-	1.760
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the four (4) aircraft E-4B fleet. The four (4) engine E-4B is a highly modified Boeing 747 Model 200 (747-200) airframe which supports the National Airborne Operations Center (NAOC) mission. NAOC provides national civilian and military leadership with a worldwide, survivable, and enduring communications node of the National Military Command System (NMCS). The modifications listed within this document provide updates to maintain Federal Aviation Agency (FAA) airframe flight worthiness certification and provide additional capabilities to the aircraft flight control, navigation and communication systems, as well as the primary mission equipment to ensure the E-4B is able to execute its various missions. These modifications also enhance operational capability while improving flight safety, reliability, and maintainability.

The current Boeing estimated design service life of the Boeing 747-200 E-4B airframe is 115K hours and 30K cycles. It is estimated this limit will be reached by the early 2030s. However, as the aircraft age, depot periods need to be extended due to maintenance issues associated with an aging fleet, thus limiting the E-4B's ability to support the NAOC mission due to aircraft non-availability. The age of the four (4) E-4B aircraft fleet presents Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues involving primary mission equipment, and to a lesser extent the airframe. Airframe DMSMS and issues associated with the non-availability of FAA certified parts are expected to increase due to the dwindling world-wide number of Boeing 747-200 aircraft because of the international commercial airline industry removing aging aircraft from their inventories. Funding also supports emerging modification requirements, Government travel, Advisory and Assistance Services Contract (A&ASC), Federally Funded Research and Development Contract (FFRDC) support and equipment as required.

FY23 funds the Advanced Extremely High Frequency/Presidential National Voice Conferencing (AEHF/PNVC) and Survivable Super High Frequency (SSHF) efforts, as well as, Service Bulletins and Low Cost Modifications.

The AEHF/PNVC modification will install a Family of Advanced Beyond Line-Of-Sight Terminals (FAB-T) / PNVC system and will remove the currently installed Military Strategic Tactical Relay (MILSTAR) / Survivable Emergency Conferencing Network (SECN) systems. This modification is required to meet existing Presidential Policy Directive (PPD)-35, and National Security Presidential Directive (NSPD)-51/ Homeland Security Presidential Directive (HSPD)-20 requirements and to ensure continued connectivity and interoperability as satellite and communications infrastructure evolves. FAB-T Command Post Terminals will replace the MILSTAR Terminal and will provide access to protected wideband Advanced Extremely High Frequency (AEHF) satellite networks. PNVC replaces SECN, which will not be supported once the AEHF satellite network is in place.

The Survivable Super High Frequency (SSHF) modification will upgrade and replace portions of the E-4B's Jam-Resistant Secure Communications (JRSC) system to meet existing Presidential Policy Directive (PPD)-35 and National Security Presidential Directive (NSPD)-51/Homeland Security Presidential Directive (HSPD)-20 requirements and to ensure continued connectivity and interoperability as satellite and

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: E00400 / E-4
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0302015F	Other Related Program Elements: 0302015F
Line Item MDAP/MAIS Code: N/A		
<p>communications infrastructure evolves. Expected modifications include, but are not limited to, component and sub-system upgrades and replacement of portions of the current SHF system that are obsolete or near end of service life. A replacement to the SHF system is required as secure, survivable communications capability transitions from the Defense Satellite Communications System (DSCS). The program will be acquired in 2 increments: Increment 1 will include technical solutions such as upgrading the existing modems, systems integration lab, and Ka-band system. Increment 2 will include new modem technology, new Ku-band system, common workstation, and upgrades to the X-band system.</p> <p>Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.</p> <p>This funding may include emerging modification requirements to support PMA, A&AS, equipment and other government cost.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
E00400 / E-4

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0302015F **Other Related Program Elements:** 0302015F

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-40a***	3411 / Survivable SHF (Capability Improvement)				- / -	- / -	- / 1.556	- / 1.651	- / -	- / 1.651
P-40a***	4380 / MUOS (Capability Improvement)				- / 3.307	- / 0.233	- / 4.559	- / -	- / -	- / -
P-40a***	4406B / AEHF Compatible Terminal/PNVC (Capability Improvement)				- / 21.489	- / 16.152	- / 9.790	- / 1.089	- / -	- / 1.089
P-40a***	4409 / Low Frequency Transmit System (LFTS) (Capability Improvement)				- / 112.483	- / 20.039	- / -	- / -	- / -	- / -
P-40a***	99999S / SERVICE BULLETINS (Reliability & Maintainability)				- / 12.931	- / 5.726	- / 1.186	- / 1.243	- / -	- / 1.243
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)				- / 14.330	- / 1.990	- / 1.990	- / 1.990	- / -	- / 1.990
P-40	Total Gross/Weapon System Cost				- / 164.540	- / 44.140	- / 19.081	- / 5.973	- / -	- / 5.973

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-40a***	3411 / Survivable SHF (Capability Improvement)				- / 9.593	- / 27.600	- / 31.649	- / 32.335	- / -	- / 104.384
P-40a***	4380 / MUOS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 8.099
P-40a***	4406B / AEHF Compatible Terminal/PNVC (Capability Improvement)				- / 2.769	- / 2.819	- / 2.866	- / 2.928	- / -	- / 59.902
P-40a***	4409 / Low Frequency Transmit System (LFTS) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 132.522
P-40a***	99999S / SERVICE BULLETINS (Reliability & Maintainability)				- / 6.266	- / 6.419	- / 6.558	- / 6.743	- / -	- / 47.072
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)				- / 1.990	- / 1.990	- / 1.990	- / 1.990	- / -	- / 28.260
P-40	Total Gross/Weapon System Cost				- / 20.618	- / 38.828	- / 43.063	- / 43.996	- / 0.000	- / 380.239

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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:

- SSHF FY22 supports Increment 1 hardware procurement for two aircraft, PMA, and change orders.
- SSHF FY23 supports Increment 1 hardware procurement for one aircraft, installation costs for two aircraft, PMA, and change orders.
- SSHF FY24-27 is projected to support Increment 1 installation costs for one aircraft, Increment 2 hardware procurement and installation activities, and support costs.

- MUOS FY22 is the last year of funding for this program. FY22 supports remaining hardware procurement, installation costs for three aircraft, and PMA.

- AEHF FY21 supports hardware procurement of three retrofit kits, initial kit installation costs for one aircraft, and PMA.
- AEHF FY22 supports retrofit kit installation costs for two aircraft and PMA.
- AEHF FY23 supports PMA.
- AEHF FY24-27 is projected to support retrofit kit installation costs for one aircraft and PMA.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: E00800 / E-8
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207581F	Other Related Program Elements: N/A
--	--	--

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	66.778	22.037	16.312	16.610	-	16.610	6.516	37.339	37.954	38.776	-	242.322
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	66.778	22.037	16.312	16.610	-	16.610	6.516	37.339	37.954	38.776	-	242.322
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	66.778	22.037	16.312	16.610	-	16.610	6.516	37.339	37.954	38.776	-	242.322

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the E-8C Joint Surveillance Target Attack Radar System (JSTARS) aircraft. JSTARS was developed for ground surveillance, targeting, and battle management. The E-8C is a modified Boeing 707-300 airframe that provides a unique blend of Battle Management Command and Control (BMC2) and Intelligence, Surveillance, and Reconnaissance (ISR). Air Battle Managers onboard the JSTARS use its wide area ground surveillance radar to build situational awareness and identify targets which are passed to strike assets or cross-cued with ISR platforms. The capability to perform this dual mission at the tactical edge both reduces the time to execute the kill chain and improves ISR collections across the range of military options outside of the contested environment.

Per the FY19 and FY21 NDAA the SecDef certified that a spaced based Ground Movement Tracking Indicator (GMTI) capability exists to meet the Combatant Commanders Requirements. This certification initiated the divestiture of the JSTARS weapons system starting in FY22 and ending in FY24.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	22.037	16.312	16.610	-	16.610	6.516	37.339	37.954	38.776
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	22.037	16.312	16.610	-	16.610	6.516	37.339	37.954	38.776

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
E00800 / E-8

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207581F **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-40a***	38203 / Distributed Mission Ops Center (DMOC) (Other)				- / 4.029	- / -	- / -	- / -	- / -	- / -
P-40a***	38204 / JSTARS OCO Requirements (Other)				- / 13.000	- / -	- / -	- / -	- / -	- / -
P-40a***	38206 / SATCOM/MUOS Radios (Capability Improvement)				- / -	- / 7.601	- / 7.601	- / -	- / -	- / -
P-40a***	38207 / JSTARS Re-engining (Reliability & Maintainability)				- / 20.000	- / -	- / -	- / -	- / -	- / -
P-3a	38202 / Common Data Link (Other)		B		- / 29.749	- / 14.436	- / 8.711	- / 16.610	- / 0.000	- / 16.610
P-40	Total Gross/Weapon System Cost				- / 66.778	- / 22.037	- / 16.312	- / 16.610	- / -	- / 16.610

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-40a***	38203 / Distributed Mission Ops Center (DMOC) (Other)				- / -	- / -	- / -	- / -	- / -	- / 4.029
P-40a***	38204 / JSTARS OCO Requirements (Other)				- / -	- / -	- / -	- / -	- / -	- / 13.000
P-40a***	38206 / SATCOM/MUOS Radios (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 15.202
P-40a***	38207 / JSTARS Re-engining (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 20.000
P-3a	38202 / Common Data Link (Other)		B		- / 6.516	- / 37.339	- / 37.954	- / 38.776	- / -	- / 190.091
P-40	Total Gross/Weapon System Cost				- / 6.516	- / 37.339	- / 37.954	- / 38.776	- / -	- / 242.322

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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:
Due to a programming error, the FY23 PB request included funds in the JSTARS PE. Requesting Congress' concurrence to reprogram the funds via a technical adjustment to support the JSTARS divestment.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00800 / E-8	Modification Number / Title: 38202 / Common Data Link

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	29.749	14.436	8.711	16.610	0.000	16.610	6.516	37.339	37.954	38.776	-	190.091
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	29.749	14.436	8.711	16.610	0.000	16.610	6.516	37.339	37.954	38.776	-	190.091
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	29.749	14.436	8.711	16.610	0.000	16.610	6.516	37.339	37.954	38.776	-	190.091

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Bandwidth Efficient Common Data Link (BE-CDL) is a jam-resistant air-to-ground line-of-sight link from the JSTARS to the Army's Tactical Intelligence Ground Station (TGS) and USMC Tactical Exploitation Group Remote Work Station (TEG-RWS). Current Surveillance Common Data Link (SCDL) is encrypted using the KGV-8, which is near end of life and has been operating with an extended National Security Agency (NSA) waiver. Section 144 of the FY18 NDAA has mandated that military aircraft use a specified standard data link, eliminating the waiver authority of the Deputy SECDEF on 1 October 23. NSA has also mandated type 1 encryption on all airborne Common Data Link (CDL) platforms.

Milestone/Development Status

FY2023 - Due to a programming error, the FY23 PB request includes funds in the JSTARS PE. Requesting Congress' concurrence to reprogram the funds via a technical adjustment to support the JSTARS divestment.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.436	8.711	16.610	-	16.610	6.516	37.339	37.954	38.776
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.436	8.711	16.610	0.000	16.610	6.516	37.339	37.954	38.776

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: E00800 / E-8					Modification Number / Title: 38202 / Common Data Link			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: E-8C				Modification Type: Other				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> CDL													
B Kits													
Recurring													
CDL:EQUIPMENT Group B (Active)	- / -	- / -	- / -	1 / 16.610	- / -	1 / 16.610	- / -	- / -	- / -	- / -	- / -	1 / 16.610	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 16.610	- / -	- / 16.610	- / -	- / -	- / -	- / -	- / -	- / 16.610	
<i>Subtotal: CDL</i>	- / -	- / -	- / -	- / 16.610	- / -	- / 16.610	- / -	- / -	- / -	- / -	- / -	- / 16.610	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 16.610	- / -	- / 16.610	- / -	- / -	- / -	- / -	- / -	- / 16.610	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 24.749	- / 14.436	- / 8.711	- / -	- / -	- / -	- / 6.516	- / 37.339	- / 37.954	- / 38.776	- / -	- / 168.481	
PMA - Contractor Services	- / 15.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.000	
<i>Subtotal: Support</i>	- / 29.749	- / 14.436	- / 8.711	- / -	- / -	- / -	- / 6.516	- / 37.339	- / 37.954	- / 38.776	- / -	- / 173.481	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	29.749	14.436	8.711	16.610	0.000	16.610	6.516	37.339	37.954	38.776	-	190.091	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: E00800 / E-8			Modification Number / Title: 38202 / Common Data Link	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: CDL							
Manufacturer Information							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Melbourne			
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			Jan 2023				
Delivery Dates			Nov 2023				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 1		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: E34045 / Airborne Warning and Cntrl Sys (AWACS) 40/45
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207417F	Other Related Program Elements: 0207417F
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Line Item MDAP/MAIS Code: 277

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	837.960	47.276	24.827	0.000	-	0.000	0.000	0.000	0.000	0.000	-	910.063
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	837.960	47.276	24.827	0.000	-	0.000	0.000	0.000	0.000	0.000	-	910.063
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	837.960	47.276	24.827	0.000	-	0.000	0.000	0.000	0.000	0.000	-	910.063

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	10.892	3.282	-	-	-	-	-	-	-	-	-	14.174
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Airborne Warning and Control System (AWACS) provides a highly mobile, flexible, survivable theater Wide Area Surveillance, Battle Management Command and Control (BMC2) capability. It is capable of detecting, identifying, and tracking airborne and maritime targets at extended ranges as well as identifying air/ground emitters. AWACS can relay "big picture" information to C2 agencies and friendly aircraft. AWACS provides worldwide response to situations requiring immediate on-scene BMC2 using embedded real-time surveillance for employment of US and allied combat air forces. AWACS is critical to gaining and maintaining battle-space air superiority. AWACS coordinates with both tactical and C2 assets in theater to execute the air mission. The AWACS Block 40/45 Upgrade program is the largest modification in U.S. AWACS history and represents the critical foundation and baseline system required for all future AWACS enterprise modifications including net-centric operations. The AWACS Block 40/45 Upgrade provides a single target/single track capability with an improved human-machine interface for time-critical targeting designed to increase combat effectiveness and reduce fratricide. The AWACS Block 40/45 Upgrade program includes: An upgrade to Electronic Support Measures sensor data processing; Multi-Source Integration; a Data Link Infrastructure with prioritized data link bandwidth management for Link 16/ Link 11; new battle management tools; capability to parse, allow user access to, and integrate Air Control Order/Air Tasking Order data; enhanced mission and console recording capabilities; and an update to a low-bandwidth internet chat capability (Secure Iridium Chat).

The Program will continue to meet emerging cyber security and system integration requirements and continue executing a Performance Based Logistics contract to maintain fielded aircraft and ground support systems. The program will continue to support the 552nd ACW and field support infrastructure at the 962nd Air Control Squadron at Joint Base Elmendorf- Richardson, AK and the 961st Air Control Squadron at Kadena AFB, Japan.

Beginning in FY23, funding is discontinued to align with reduced E-3 modification efforts due to the planned transition to the E-3 replacement.

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
E34045 / Airborne Warning and Cntrl Sys (AWACS) 40/45

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207417F **Other Related Program Elements:** 0207417F

Line Item MDAP/MAIS Code: 277

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	1 / BLOCK 40/45 BLOCK UPGRADE (Capability Improvement)		A		- / 837.960	- / 47.276	- / 24.827	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 837.960	- / 47.276	- / 24.827	- / 0.000	- / -	- / 0.000

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	1 / BLOCK 40/45 BLOCK UPGRADE (Capability Improvement)		A		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 910.063
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 910.063

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

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

Justification:
The program will continue to meet emerging cyber security and system integration requirements and maintain fielded aircraft by transitioning from Interim Contractor Support (ICS) to two long-term PBL Contractor Logistics Support (CLS) contracts that were awarded in FY2020. The program will continue to support the 552nd ACW and field support infrastructure at the 962nd Air Control Squadron at Joint Base Elmendorf- Richardson, AK and the 961st Air Control Squadron at Kadena AFB, Japan.

Beginning in FY23, funding is discontinued to align with reduced E-3 modification efforts due to the planned transition to the E-3 replacement.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E34045 / Airborne Warning and Cntrl Sys (AWACS) 40/45	Modification Number / Title: 1 / BLOCK 40/45 BLOCK UPGRADE

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	837.960	47.276	24.827	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	910.063
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	837.960	47.276	24.827	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	910.063
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	837.960	47.276	24.827	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	910.063

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	10.892	3.282	0.000	0.000	-	0.000	0.000	-	-	-	0.000	14.174
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Airborne Warning and Control System (AWACS) provides a highly mobile, flexible, survivable theater Wide Area Surveillance, Battle Management Command and Control (BMC2) capability. It is capable of detecting, identifying, and tracking airborne and maritime targets at extended ranges as well as identifying air/ground emitters. AWACS can relay "big picture" information to C2 agencies and friendly aircraft. AWACS provides worldwide response to situations requiring immediate on-scene BMC2 using embedded real-time surveillance for employment of US and allied combat air forces. AWACS is critical to gaining and maintaining battle-space air superiority. AWACS coordinates with both tactical and C2 assets in theater to execute the air mission. The AWACS Block 40/45 Upgrade program is the largest modification in U.S. AWACS history and represents the critical foundation and baseline system required for all future AWACS enterprise modifications including net-centric operations. The AWACS Block 40/45 Upgrade provides a single target/single track capability with an improved human-machine interface for time-critical targeting designed to increase combat effectiveness and reduce fratricide. The AWACS Block 40/45 Upgrade program includes an upgrade to Electronic Support Measures sensor data processing; Multi-Source Integration; a Data Link Infrastructure with prioritized data link bandwidth management for Link 16/ Link 11; new battle management tools; capability to parse, allow user access to, and integrate Air Control Order/Air Tasking Order data; enhanced mission and console recording capabilities; and an update to a low-bandwidth internet chat capability (Secure Iridium Chat).

Low Rate Initial Production (LRIP) was approved for six (6) aircraft in November 2008 [one (1) buy in FY2009, two (2) buys in FY2010, and three (3) buys in FY2012]. The Block 40/45 Full Rate Production was approved in November 2012 for the remaining twenty-five (25) aircraft and technology refresh of the six (6) LRIP aircraft; the corresponding production contract was awarded on 27 December 2012. The FY2015 President's budget reduced the AWACS inventory of 31 aircraft to 24 and funding for Block 40/45 Full Rate Production to 24 aircraft. Budgetary actions in FY2017-FY2019 have restored the required funding for 31 aircraft. The program then awarded an undefinitized contract action in FY2019 to procure the remaining Block 40/45 production kits to be used to modify the seven (7) remaining Block 30/35 aircraft, and subsequently a contract to procure production kits to update version 3.0 aircraft to version 4.0, and provide contractor shipside and engineering support for modifications. Additionally, the Program Office will continue to provide updates to fielded ground support systems and provide systems to support organic software maintenance.

In FY2013, the program office began Depot Activation activities to comply with Sources of Repair Assignment Program (SORAP) 09-063 that mandates organic hardware and software maintenance. In December 2015 the Government awarded a contract to fully implement an organic software maintenance facility for aircraft and ground systems at the 558th Software Engineering Squadron by FY2020 and continued adding capability in FY2021. Depot activation of select components and implementation of a Performance Based Logistics (PBL) strategy recommended by our Product Support Business Case Analysis are in work.

Funding for this modification had previously been contained in Weapon System Code (WSC) E00300, but as part of OSD's Major Programs Transparency Initiative and starting in FY2015, the AWACS Block 40/45 Upgrade (MDAP) was moved to WSC E34045. Prior year funding and associated quantities remain in WSC E00300.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E34045 / Airborne Warning and Cntrl Sys (AWACS) 40/45	Modification Number / Title: 1 / BLOCK 40/45 BLOCK UPGRADE
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	
<p>The Program will continue to meet emerging cyber security and system integration requirements and continue executing a Performance Based Logistics contract to maintain fielded aircraft and ground support systems. The program will continue to support the 552nd ACW and field support infrastructure at the 962nd Air Control Squadron at Joint Base Elmendorf- Richardson, AK and the 961st Air Control Squadron at Kadena AFB, Japan.</p> <p>Beginning in FY23, funding is decreased to align with reduced E-3 modification efforts due to the planned transition to the E-3 replacement platform.</p> <p>Milestone/Development Status</p> <p>11/08 - Completed Aircraft Block 40/45 Development (Milestone C/LRIP), 08/11 - Completed Aircraft Block 40/45 Pre-Production, 11/13 - Completed Development of MCMT, 02/14 - Completed Development of MCTS, 06/14 - Completed Development of DGS/GS, 06/14 - Last (6th) LRIP Jet Delivered, First Production Jet Inducted, 07/14 - IOC Declared by ACC/CC.</p>		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: E34045 / Airborne Warning and Cntrl Sys (AWACS) 40/45						Modification Number / Title: 1 / BLOCK 40/45 BLOCK UPGRADE			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: E-3				Modification Type: Capability Improvement				Related RDT&E PEs: 0207417F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Block 4045													
A Kits													
Recurring													
Block 4045:INSTALL KITS Group A (Active)	18 / 119.233	- / 0.160	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	18 / 119.393	
<i>Subtotal: Recurring</i>	- / 119.233	- / 0.160	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 119.393	
B Kits													
Recurring													
Block 4045:EQUIPMENT Group B (Active)	- / 109.517	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 109.517	
<i>Subtotal: Recurring</i>	- / 109.517	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 109.517	
<i>Subtotal: Block 4045</i>	- / 228.750	- / 0.160	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 228.910	
<i>Subtotal: Procurement, All Modification Items</i>	- / 228.750	- / 0.160	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 228.910	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 88.321	- / 2.528	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 90.849	
Make New Selection	- / 185.873	- / 12.836	- / 19.436	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 218.145	
Change Orders	- / 5.824	- / 0.995	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.819	
SIM/TRAINER	3 / 49.030	1 / 2.833	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 51.863	
SUPPORT-EQUIP	- / 177.173	- / 0.891	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 78.064	
ICS-Labor	- / 100.321	- / 9.240	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 109.561	
OTHER GOVT	- / 124.898	- / 1.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.284	
PMA - Other Gov't Costs	- / 18.051	- / 0.110	- / 0.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.511	
PMA - Contractor Services	- / 129.587	- / 1.120	- / 5.041	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 35.748	
<i>Subtotal: Support</i>	3 / 579.078	1 / 31.939	- / 24.827	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	4 / 635.844	
Installation													
<i>Modification Item 1 of 1:</i> Block 4045	15 / 30.132	4 / 15.177	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 45.309	
<i>Subtotal: Installation</i>	15 / 30.132	4 / 15.177	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 45.309	
Total													
Total Cost (Procurement + Support + Installation)	837.960	47.276	24.827	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	910.063	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E34045 / Airborne Warning and Cntrl Sys (AWACS) 40/45	Modification Number / Title: 1 / BLOCK 40/45 BLOCK UPGRADE
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 1: Block 4045

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Seattle
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

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	15 / 30.132	4 / 15.177	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 45.309
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 30.132	4 / 15.177	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 45.309

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	15	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	19
Out	13	1	1	-	-	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	19

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: FBLOST / Family of Beyond Line-of-Sight Terminals
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303001F, 0303601F
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Line Item MDAP/MAIS Code: 199

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	89.101	1.573	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	90.674
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	89.101	1.573	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	90.674
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	89.101	1.573	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	90.674

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

In FY2021, P-1 Line Item BP11 FBLOST APPN 3010, BP 11, CLC Family of Beyond Line-Sight Terminals efforts were transferred to Appropriation 3022F, Procurement, Space Force, from Appropriation 3021F due to the creation of a new Appropriation for Space Force.

The Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) program replaces legacy Milstar terminals and provides Extremely High Frequency (EHF), protected high data rate communication for nuclear and conventional forces to include Presidential and National Voice Conferencing (PNVC). FAB-T will provide this new, highly secure, state-of-the-art capability for DoD platforms to include: Strategic platforms and airborne/ground command posts via Milstar; AEHF; and Enhanced Polar System (EPS) satellites. FAB-T terminals will also support the critical command and control (C2) of the Milstar, AEHF and EPS satellite constellations.

The Force Element Terminal (FET) subprogram provides a nuclear survivable terminal capable of communicating with the Milstar and AEHF satellites, and provides for survivable NC3 data transport services (EAM dissemination and force report back) for airborne platforms. The FET is for the B-52 and select RC-135 aircraft and will not provide satellite control or PNVC functionality.

The PNVC capability is a critical element of the Nuclear Command, Control, and Communications (NC3) system. PNVC is the Survivable Emergency Conferencing Network (SECN) replacement capability which provides anti-jam, anti-scintillation, survivable, and endurable voice communications through the AEHF satellite system for national and strategic users. Equipment upgrades required for this system include the development and production of several new components by other organizations, including the Baseband Interface Group (BIG) and Multi-Stream Summing Device (MSD-III) for airborne users.

Programs and projects in the space warfighting enterprise are evaluating ways to maximize innovation, resiliency, and our ability to rapidly respond to known and emerging threats. Space enterprise efforts aim to execute technology risk reduction efforts, integration of new or repurposed capabilities, enterprise decision-making tools, experimentation, and rapid prototyping and fielding via all appropriate acquisition authorities and contract mechanisms.

Funding for this exhibit is contained in PE 1203001F

Justification:

FAB-T awarded the terminal buys successfully procuring 23 Airborne Terminals. In FY 2021, the program will continue to support platform install activities, provide Interim Contractor Support for the existing fielded terminals and other support activities. Rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to program office support, studies, technical analysis, prototyping, depot activation (stand-up), ICS, etc.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: FBLOST / Family of Beyond Line-of-Sight Terminals
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303001F, 0303601F
Line Item MDAP/MAIS Code: 199		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: H00100 / H-1
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0101235F	Other Related Program Elements: 0101235F, 0401314F, 0804747F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	53.333	4.410	1.533	1.757	-	1.757	2.039	2.078	1.203	1.228	0.000	67.581
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	53.333	4.410	1.533	1.757	-	1.757	2.039	2.078	1.203	1.228	0.000	67.581
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	53.333	4.410	1.533	1.757	-	1.757	2.039	2.078	1.203	1.228	0.000	67.581

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to UH-1N and TH-1H aircraft. The two-engine UH-1N is a light, utility helicopter primarily used for missile site and range support and distinguished visitor airlift support. There are 63 UH-1N aircraft in the inventory. They were built with an estimated service life of 10,000 flight hours and are not service limited due to on-going modifications and upgrades. There are 28 TH-1H aircraft in the inventory. They are used in the helicopter track for USAF Specialized Undergraduate Pilot Training. The TH-1H modernization modification provided a service life of 20 years, the last one was delivered in 2013.

This funding will address aircraft modifications, aging fleet problems to include: structural repairs, replacement of key systems based on structural fatigue, system obsolescence and a diminishing manufacturing industrial base. Additionally, this effort will address safety requirements to include: Federal Aviation Administration, DoD, engineering mandates and configuration changes. This effort includes funding for program support costs.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Funding in this exhibit is contained in PE 0101235F, PE 0401314F, and PE 0804747F.

Justification:

Primary efforts in FY 2023 include: UH-1N Low Cost Modifications and TH-1H Low Cost Modifications.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: H06000 / H-60
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207224F, 0207228F	Other Related Program Elements: 0207224F, 0207228F
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Line Item MDAP/MAIS Code: None

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	842.126	26.428	14.479	10.820	-	10.820	2.218	0.006	0.000	0.000	-	896.077
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	842.126	26.428	14.479	10.820	-	10.820	2.218	0.006	0.000	0.000	-	896.077
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	842.126	26.428	14.479	10.820	-	10.820	2.218	0.006	0.000	0.000	-	896.077

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the HH-60G helicopter. The HH-60G currently supports the Air Force's core function of Personnel Recovery. The primary mission of the HH-60G is to conduct day, night, and marginal weather Combat Search and Rescue (CSAR) in order to recover isolated personnel in hostile or permissive environments. Potential mission areas include casualty evacuation (CASEVAC), medical evacuation (MEDEVAC), non-combatant evacuation operations, civil search and rescue, international aid, disaster humanitarian relief, and insertion/extraction of combat forces. The Operational Loss Replacement (OLR) Mission Modification program completed delivery of 21 additional aircraft and is moving into sustainment. There are currently 82 aircraft as of Feb 22 with the 10 aircraft scheduled for retirement in FY22. The HH-60G is in the sunset period and will be completely retired in FY26.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Funding for this exhibit is contained in PE 0207228F.

The FY 2023 funding request was reduced by \$8.458 million to account for the availability of prior year execution balances.

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

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	25.404	9.109	10.820	0.000	10.820	2.218	0.006	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.370	-	0.000	0.000	0.000	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.024	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force							Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft					P-1 Line Item Number / Title: H06000 / H-60				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: 0207224F, 0207228F			Other Related Program Elements: 0207224F, 0207228F			
Line Item MDAP/MAIS Code: None									

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	26.428	14.479	10.820	0.000	10.820	2.218	0.006	-	-

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
H06000 / H-60

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207224F, 0207228F **Other Related Program Elements:** 0207224F, 0207228F

Line Item MDAP/MAIS Code: None

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-40a***	8564 / Control Display Unit (CDU) (Capability Improvement)				- / 31.744	- / -	- / -	- / -	- / -	- / -
P-40a***	8565 / Navigation System Upgrade (NSU) (Capability Improvement)				- / 66.790	- / 1.310	- / -	- / -	- / -	- / -
P-40a***	8844 / Multi-function Color Display (Capability Improvement)				- / 45.911	- / 4.210	- / 1.600	- / 2.310	- / -	- / 2.310
P-40a***	8850 / MODE 5 (Capability Improvement)				- / 34.410	- / 3.624	- / 0.310	- / 0.246	- / -	- / 0.246
P-40a***	8852 / CSAR Avionics/Electrical Upgrade (Capability Improvement)				- / 18.361	- / 0.160	- / -	- / -	- / 0.000	- / 0.000
P-40a***	8854 / HH-60 OLR Mission Modifications (Other)				- / 465.364	- / 1.710	- / 0.570	- / 1.000	- / -	- / 1.000
P-40a***	8856 / Block 162 (Service Life Extension)				- / 51.790	- / 0.250	- / -	- / -	- / -	- / -
P-40a***	8859 / DVE Sensor (Capability Improvement)				- / 29.766	- / 9.900	- / -	- / -	- / -	- / -
P-40a***	8861 / HH-60 DATALINKS (Capability Improvement)				- / 28.389	- / 3.344	- / -	- / -	- / -	- / -
P-40a***	8862 / HH-60G Communication Suite Control Integration (Capability Improvement)				- / 5.490	- / -	- / -	- / -	- / -	- / -
P-40a***	8863 / Load Stabilizers (Capability Improvement)				- / -	- / -	- / 5.370	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Other)				- / 8.522	- / 0.120	- / 2.429	- / 1.224	- / -	- / 1.224
P-3a	8853 / DEFENSIVE SYSTEM UPGRADE (Capability Improvement)		A		- / 55.589	- / 1.800	- / 4.200	- / 6.040	- / 0.000	- / 6.040
P-40	Total Gross/Weapon System Cost				- / 842.126	- / 26.428	- / 14.479	- / 10.820	- / -	- / 10.820

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-40a***	8564 / Control Display Unit (CDU) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 31.744
P-40a***	8565 / Navigation System Upgrade (NSU) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 68.100
P-40a***	8844 / Multi-function Color Display (Capability Improvement)				- / 0.200	- / -	- / -	- / -	- / -	- / 54.231
P-40a***	8850 / MODE 5 (Capability Improvement)				- / 0.200	- / -	- / -	- / -	- / -	- / 38.790
P-40a***	8852 / CSAR Avionics/Electrical Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 18.521
P-40a***	8854 / HH-60 OLR Mission Modifications (Other)				- / 0.800	- / -	- / -	- / -	- / -	- / 469.444
P-40a***	8856 / Block 162 (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / 52.040
P-40a***	8859 / DVE Sensor (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 39.666
P-40a***	8861 / HH-60 DATALINKS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 31.733
P-40a***	8862 / HH-60G Communication Suite Control Integration (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 5.490
P-40a***	8863 / Load Stabilizers (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 5.370
P-40a***	99999X / Low Cost Modifications (Other)				- / 0.168	- / 0.006	- / -	- / -	- / -	- / 12.469
P-3a	8853 / DEFENSIVE SYSTEM UPGRADE (Capability Improvement)		A		- / 0.850	- / 0.000	- / -	- / -	- / -	- / 68.479
P-40	Total Gross/Weapon System Cost				- / 2.218	- / 0.006	- / 0.000	- / 0.000	- / -	- / 896.077

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: H06000 / H-60
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207224F, 0207228F	Other Related Program Elements: 0207224F, 0207228F
Line Item MDAP/MAIS Code: None		
*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:

Primary efforts in FY 2023 include: Multi Function Color Display (MFCD) ICS, Mode 5 ICS, HH-60 OLR Mission Modifications ICS, Defensive Systems Upgrade ICS, and Low Cost Modifications.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8853 / DEFENSIVE SYSTEM UPGRADE

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	55.589	1.800	4.200	6.040	0.000	6.040	0.850	0.000	-	-	-	68.479
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	55.589	1.800	4.200	6.040	0.000	6.040	0.850	0.000	-	-	-	68.479
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	55.589	1.800	4.200	6.040	0.000	6.040	0.850	0.000	-	-	-	68.479

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Defensive Systems Upgrade is a continuing effort to provide the HH-60G Pave Hawk with the ability to detect, deter, suppress or evade ever-evolving enemy threat systems.

The AAR-47 was procured and installed in the HH-60G in response to a modification proposal directed by AF Form 1067, SOC 10-252, dated 15 September 2010. Rescues performed in combat highlighted the need to modernize the HH-60G's defensive systems, and gave aircrews precise, real-time threat information that was fully integrated with existing defensive systems. AAR-47 Missile Warning Systems were procured and installed in 97 aircraft.

Emerging enemy threats resulted in JUON SO-0010, validated 24 April 2015, which required the DoD to upgrade and rapidly integrate defensive systems on rotary wing aircraft in theater. Distributed Aperture Infrared Countermeasures (DAIRCM), identified in these exhibits as "Missile Warning and Countermeasure Kit is a suite of missile warning, laser warning, hostile fire indicator, and infrared countermeasure (IRCM) components designed to defend the aircraft from various threats to include infrared guided missiles. Hostile Fire Indicator (HFI) alerts the aircrew of rocket propelled grenade or small arms fire, the most common threats encountered in theater. Aircrews will be able to return precise and immediate defensive fire and automatically provide IRCM to effectively deter, suppress, or destroying the enemy threat, or maneuver to avoid the threat as needed.

This program supported procurement and installation of 32 countermeasure systems, and two color IR systems to allow for coverage of Operation FREEDOM'S SENTINEL (OFS), Operation INHERENT RESOLVE (OIR), and future operations.

The large amount of Overseas Contingency Operations (OCO) funding received for this JUON in FY19 has covered requirements in FY19 through 21. FY23 funding will be used for Interim Contractor Support (ICS) and Program Support Costs for the 27 aircraft equipped with the Missile Warning and Countermeasure systems.

Milestone/Development Status

RDT&E funds are not a component of this effort.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.800	4.200	6.040	-	6.040	0.850	-	-	-
Total:	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8853 / DEFENSIVE SYSTEM UPGRADE
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	1.800	4.200	6.040	0.000	6.040	0.850	0.000	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: H06000 / H-60				Modification Number / Title: 8853 / DEFENSIVE SYSTEM UPGRADE				
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:						
Models of Systems Affected: HH-60G			Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F					
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: AAR-47 kit												
B Kits												
Recurring												
AAR-47 kit:EQUIPMENT Group B (Active)	65 / 9.783	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 9.783
AAR-47 kit:EQUIPMENT Group B (Guard)	17 / 2.482	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 2.482
AAR-47 kit:EQUIPMENT Group B (Reserve)	15 / 2.190	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.190
Subtotal: Recurring	- / 14.455	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.455
Subtotal: AAR-47 kit	- / 14.455	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.455
Modification Item 2 of 2: Missile Warning and Counter Measure Kit												
A Kits												
Recurring												
Missile Warning and Counter Measure Kit:INSTALL KITS Group A (Active)	32 / 6.256	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 6.256
Subtotal: Recurring	- / 6.256	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.256
B Kits												
Recurring												
Missile Warning and Counter Measure Kit:EQUIPMENT Group B (Active)	32 / 24.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 24.000
Subtotal: Recurring	- / 24.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.000
Subtotal: Missile Warning and Counter Measure Kit	- / 30.256	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 30.256
Subtotal: Procurement, All Modification Items	- / 44.711	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.711
Support (All Modification Items)												
A&AS	- / 0.144	- / -	- / 0.300	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / 0.944
ICS-Labor	- / 4.000	- / -	- / 3.900	- / 5.540	- / -	- / 5.540	- / 0.850	- / -	- / -	- / -	- / -	- / 14.290
ICS-Material	- / 4.494	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.494
PSC - Other Gov't Costs	- / 0.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.080
Subtotal: Support	- / 8.718	- / -	- / 4.200	- / 6.040	- / -	- / 6.040	- / 0.850	- / -	- / -	- / -	- / -	- / 19.808
Installation												
Modification Item 2 of 2: Missile Warning and Counter Measure Kit	16 / 2.160	16 / 1.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 3.960
Subtotal: Installation	16 / 2.160	16 / 1.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 3.960

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 **P-1 Line Item Number / Title:** H06000 / H-60 **Modification Number / Title:** 8853 / DEFENSIVE SYSTEM UPGRADE

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

Models of Systems Affected: HH-60G **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0207224F

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)	55.589	1.800	4.200	6.040	0.000	6.040	0.850	0.000	-	-	-	68.479

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: H06000 / H-60			Modification Number / Title: 8853 / DEFENSIVE SYSTEM UPGRADE	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 2: AAR-47 kit							
Manufacturer Information							
Manufacturer Name: ATK				Manufacturer Location: Clearwater FL			
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 (Organic): Org/Intermediate					Installation Quantity: 97		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8853 / DEFENSIVE SYSTEM UPGRADE

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 2 of 2: Missile Warning and Counter Measure Kit

Manufacturer Information

Manufacturer Name: DRS	Manufacturer Location: FL
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 8

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

Installation Information

Method of Implementation: Contract Field Team

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	16 / 2.160	16 / 1.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 3.960
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	16 / 2.160	16 / 1.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 3.960

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	16	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	32
Out	16	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	32

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
H060WM / Combat Rescue Helicopter Modification

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207229F **Other Related Program Elements:** 0605229F

Line Item MDAP/MAIS Code: 479

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	3.083	-	3.083	103.475	107.818	102.692	104.915	-	421.983
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	3.083	-	3.083	103.475	107.818	102.692	104.915	-	421.983
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	3.083	-	3.083	103.475	107.818	102.692	104.915	-	421.983

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Combat Rescue Helicopter (HH-60W) program will replace the aging HH-60G. The HH-60W will be capable of employment day or night, in adverse weather, and across the full spectrum of threats to include chemical, biological, radiological, and nuclear. On-board defensive capabilities will permit the HH-60W system to operate with less risk than legacy systems in an increased threat environment. An in-flight air refueling capability will provide an airborne alert capability and extend its combat mission range. The HH-60W system is capable of conducting combat search and rescue airborne mission commander duties. The aircraft will be self-supporting to the maximum extent practical. The HH-60W system may also conduct other collateral missions inherent in its capabilities to conduct Personnel Recovery, such as non-conventional assisted recovery, non-conventional evacuation operations, defense support to civil authorities, civil search and rescue, international aid, emergency aeromedical evacuation, disaster/humanitarian relief, counter-drug activities, support for National Aeronautics and Space Administration flight operations, and insertion/extraction of combat forces.

Funding for this exhibit contained in PE 0207229F.

The primary effort in FY23 within the low cost modification effort is resolution of Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, training systems retrofit, engineering efforts for redesign and retrofits of fielded aircraft. FY23 efforts will also include software modifications and Link 16 Crypto Modernization.

Future efforts may include Directional Infrared Counter Measure capability, Global Positioning System Anti-Jam/Anti-Spoof, a Degraded Visual Environment system, Integrated Vehicle Health Monitoring System Control, Video Data Link, Blue Force Tracker 2, Mobile User Objective System, Electronic Flight Bags, and Automated Dependent Surveillance Broadcast - In Device. Capability Upgrades and modernization also supports inclusion for mandates, hardware and software changes for diminishing manufacturing sources, and component obsolescence issues.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Justification:

This program, P-3A Mod 99999X, Low Cost Modifications, is a new start.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0305220F	Other Related Program Elements: 0305220F
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Line Item MDAP/MAIS Code: 252

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	631.568	3.350	3.205	1.286	-	1.286	30.056	9.087	9.237	0.373	-	688.162
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	631.568	3.350	3.205	1.286	-	1.286	30.056	9.087	9.237	0.373	-	688.162
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	631.568	3.350	3.205	1.286	-	1.286	30.056	9.087	9.237	0.373	-	688.162

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	2.906	-	-	-	-	-	-	-	-	-	-	2.906
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

USAF divested Block 20 aircraft in FY21 and is planning to divest the Block 30 aircraft in FY22. To maximize value to the USAF and DoD, FY23 efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

The RQ-4 System provides high altitude, deep look, long-endurance Intelligence, Surveillance, and Reconnaissance (ISR) capability that complements space and other airborne collectors during peacetime, crisis, and war-fighting scenarios. Successor to the RQ-4A, the RQ-4B is a Remotely Piloted Aircraft (RPA) designed to employ 3,000 pounds of payload and enable multi-intelligence (multi-INT) collecting. The RQ-4B has three configurations: Block 20, Block 30, and Block 40. The USAF divested Block 20 aircraft in FY21. Currently, the active inventory consists of twenty (20) Block 30s, and nine (9) Block 40s. The USAF is planning to divest the Block 30 aircraft in FY22. The Block 40 integrates the Multi-Platform Radar Technology Insertion Program (MP-RTIP) radar that has Ground Moving Target Indicator (GMTI) capability. The ground segment includes the Mission Control Element (MCE) and the Launch Recovery Element (LRE). There are a total of twenty-one (21) active ground segments in the existing RQ-4 inventory. The support segment includes aerospace ground equipment, tech orders, spares, support equipment, and training to enable operation of the RQ-4 System. The RQ-4 program will incorporate applicable synergies with other platforms and other RPA weapon systems whenever possible.

To protect production schedules from Diminishing Manufacturing Sources (DMS) and material shortages issues, the program will perform schedule protection buys when appropriate. Funding may be used to alleviate DMS issues for which there are not sufficient Government spares and/or the ability to repair organically or commercially is not viable.

The RQ-4 system will be continually modified to maintain pace with evolving threats and increasing capabilities included in modernization efforts. FY23 funds will support modification efforts to include RQ-4 aircraft mods, included aircraft sensor mods, trainers, on-board data storage, low cost modifications, retrofit support planning, change requests, structural modifications required to bring the RQ-4 aircraft up to current configurations, support equipment, other modification efforts to upgrade the Global Hawk fleet, as well as technology insertion activities in support of Better Buying Power initiatives.

Modifications include Identification Friend or Foe (IFF) Mode 5 and Technical Order Management Agency (TOMA) retrofit support planning, other government costs not specific to separately identified Mod line, ISR Payload Adaptors, and other 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.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0305220F	Other Related Program Elements: 0305220F

Line Item MDAP/MAIS Code: 252

Funding for this exhibit is contained in PE 0305220F.

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
HAWK00 / RQ-4 Mods

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0305220F **Other Related Program Elements:** 0305220F

Line Item MDAP/MAIS Code: 252

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	470001 / GH Aircraft Mods (Capability Improvement)		B		- / 534.498	- / 3.350	- / 3.205	- / 1.286	- / 0.000	- / 1.286
P-3a	470003 / GH Ground Station Mods (Capability Improvement)		A		- / 15.523	- / -	- / -	- / -	- / -	- / -
P-3a	470009 / ASIP Increment I (Capability Improvement)		B		- / 37.154	- / 0.000	- / 0.000	- / -	- / -	- / -
P-3a	470010 / SAR (Capability Improvement)		A		- / 0.910	- / -	- / -	- / -	- / -	- / -
P-3a	470011 / ASIP Install/Calibration (Capability Improvement)		A		- / 4.834	- / -	- / -	- / -	- / -	- / -
P-3a	470012 / MODE 5/ADS-B (Capability Improvement)		B		- / 6.267	- / 0.000	- / -	- / -	- / -	- / -
P-3a	470013 / Sensor Enhancements (Capability Improvement)		A		- / 29.382	- / 0.000	- / 0.000	- / -	- / -	- / -
P-3a	470019 / Communication Interoperability/Enhancements (Capability Improvement)		A		- / 3.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 631.568	- / 3.350	- / 3.205	- / 1.286	- / -	- / 1.286

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	470001 / GH Aircraft Mods (Capability Improvement)		B		- / 30.056	- / 9.087	- / 9.237	- / 0.373	- / -	- / 591.092
P-3a	470003 / GH Ground Station Mods (Capability Improvement)		A		- / -	- / -	- / -	- / -	- / -	- / 15.523
P-3a	470009 / ASIP Increment I (Capability Improvement)		B		- / -	- / -	- / -	- / -	- / -	- / 37.154
P-3a	470010 / SAR (Capability Improvement)		A		- / -	- / -	- / -	- / -	- / -	- / 0.910
P-3a	470011 / ASIP Install/Calibration (Capability Improvement)		A		- / -	- / -	- / -	- / -	- / -	- / 4.834
P-3a	470012 / MODE 5/ADS-B (Capability Improvement)		B		- / -	- / -	- / -	- / -	- / -	- / 6.267
P-3a	470013 / Sensor Enhancements (Capability Improvement)		A		- / -	- / -	- / -	- / -	- / -	- / 29.382
P-3a	470019 / Communication Interoperability/Enhancements (Capability Improvement)		A		- / 0.000	- / 0.000	- / -	- / -	- / -	- / 3.000
P-40	Total Gross/Weapon System Cost				- / 30.056	- / 9.087	- / 9.237	- / 0.373	- / -	- / 688.162

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

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

Justification:

The actions identified are the minimum necessary to support operations for remaining system life (i.e. comms work) and close out work already begun in prior years.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470001 / GH Aircraft Mods

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	534.498	3.350	3.205	1.286	0.000	1.286	30.056	9.087	9.237	0.373	-	591.092
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	534.498	3.350	3.205	1.286	0.000	1.286	30.056	9.087	9.237	0.373	-	591.092
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	534.498	3.350	3.205	1.286	0.000	1.286	30.056	9.087	9.237	0.373	-	591.092

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	0.837	0.000	0.000	0.000	-	0.000	0.000	-	-	-	0.000	0.837
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

USAF divested the Block 20 aircraft in FY21 and is planning to divest Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

The Global Hawk System provides high altitude, deep look, long-endurance intelligence, surveillance, and reconnaissance (ISR) capability that complements space and other airborne collectors during peacetime, crisis, and war-fighting scenarios. The aircraft is an autonomous, high altitude, long-endurance, unmanned aircraft system (UAS) and must maintain interoperability with government and commercial communications systems and exploitation nodes within the AF and other DoD systems. The Global Hawk program will incorporate applicable synergies with other platforms, including the U.S. Navy's Triton, and other remotely piloted aircraft (RPA) weapon systems.

FY23 funding will be used as a Low Cost Modification Line. Individual modifications will generally satisfy unforeseen requirements estimated to complete within one year. Planned modifications include aircraft, payload, ground station/communications, and other retrofits to incorporate/modify capabilities and maintain interoperability across the RQ-4 mission area for expected service life. Air Vehicle modifications are written to the Line Replaceable Unit (LRU) level, not the overarching Total Aircraft Breakdown.

Modifications include Identification Friend or Foe (IFF) Mode 5 and Technical Order Management Agency (TOMA) retrofit support planning, other government costs not specific to separately identified Mod line, ISR Payload Adaptors, and other efforts.

This Mod to increase reliability and mission capability will cover change requests, retrofit planning, Diminishing Manufacturing Source (DMS) and Reliability and Maintainability (R&M) retrofits, Integrated Functional Capability (IFC) retrofits, trainers, contested environment initiatives, inflight mission planning updates, test support, support equipment, studies, other government costs, and program support. This Mod may be used to cover the efforts required to bring the early production aircraft up to the current operational configuration.

Requirement source: Air Combat Command.

Milestone/Development Status

The RQ-4 program will continue to develop, test and implement aircraft, sensor, communications and ground station performance, interoperability, sustainability and safety enhancements and solutions for implementation on the RQ-4 platform and ground based systems in an effort to maintain and improve aircraft and payload availability effectiveness and reduce life-cycle costs.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods					Modification Number / Title: 470001 / GH Aircraft Mods			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: RQ-4				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Global Hawk Air Craft Mods													
A Kits													
Recurring													
Global Hawk Air Craft Mods:INSTALL KITS Group A (Active)	67 / 3.811	- / -	- / 3.205	- / 1.286	- / -	- / 1.286	- / 30.056	- / 9.087	- / 9.237	- / 0.373	- / -	67 / 57.055	
<i>Subtotal: Recurring</i>	- / 3.811	- / -	- / 3.205	- / 1.286	- / -	- / 1.286	- / 30.056	- / 9.087	- / 9.237	- / 0.373	- / -	- / 57.055	
B Kits													
Recurring													
Global Hawk Air Craft Mods:EQUIPMENT Group B (Active)	67 / 359.226	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 359.226	
<i>Subtotal: Recurring</i>	- / 359.226	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 359.226	
<i>Subtotal: Global Hawk Air Craft Mods</i>	- / 363.037	- / -	- / 3.205	- / 1.286	- / -	- / 1.286	- / 30.056	- / 9.087	- / 9.237	- / 0.373	- / -	- / 416.281	
<i>Subtotal: Procurement, All Modification Items</i>	- / 363.037	- / -	- / 3.205	- / 1.286	- / -	- / 1.286	- / 30.056	- / 9.087	- / 9.237	- / 0.373	- / -	- / 416.281	
Support (All Modification Items)													
Change Orders	- / 142.888	- / 1.972	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 144.860	
Mod of Spares	9 / 0.875	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.875	
OTHER GOVT	- / 17.435	- / 1.378	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.813	
<i>Subtotal: Support</i>	9 / 151.198	- / 3.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 154.548	
Installation													
<i>Modification Item 1 of 1:</i> Global Hawk Air Craft Mods	67 / 20.263	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 20.263	
<i>Subtotal: Installation</i>	67 / 20.263	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 20.263	
Total													
Total Cost (Procurement + Support + Installation)	534.498	3.350	3.205	1.286	0.000	1.286	30.056	9.087	9.237	0.373	-	591.092	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470001 / GH Aircraft Mods
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: Global Hawk Air Craft Mods

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, California
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6
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Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contract Field Team

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	67 / 20.263	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 20.263
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	67 / 20.263	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 20.263

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	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470003 / GH Ground Station Mods
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	15.523	-	-	-	-	-	-	-	-	-	-	15.523
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	15.523	-	-	-	-	-	-	-	-	-	-	15.523
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	15.523	-	-	-	-	-	-	-	-	-	-	15.523

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	0.000	-	-	-	-	-	-	-	-	0.000
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

USAF is divesting the Block 20 aircraft in FY21 and planning to divest Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

Mod 470003 included small modifications for the Global Hawk Ground Segment system.

Any small modifications will be addressed in the Low Cost Mod line (99999X) or other Mod line.

Milestone/Development Status

Development concluded in prior years.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods				Modification Number / Title: 470003 / GH Ground Station Mods				
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:						
Models of Systems Affected: RQ-4			Modification Type: Capability Improvement				Related RDT&E PEs: 0305220F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Ground Station Mods												
B Kits												
Recurring												
Ground Station Mods:EQUIPMENT Group B (Active)	19 / 14.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 14.100
<i>Subtotal: Recurring</i>	- / 14.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.100
<i>Subtotal: Ground Station Mods</i>	- / 14.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.100
<i>Subtotal: Procurement, All Modification Items</i>	- / 14.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.100
Support (All Modification Items)												
OTHER GOVT	- / 0.523	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.523
<i>Subtotal: Support</i>	- / 0.523	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.523
Installation												
<i>Modification Item 1 of 1:</i> Ground Station Mods	19 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.900
<i>Subtotal: Installation</i>	19 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.900
Total												
Total Cost (Procurement + Support + Installation)	15.523	-	-	-	-	-	-	-	-	-	-	15.523

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470003 / GH Ground Station Mods
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 1: Ground Station Mods

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 2

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

Installation Information

Method of Implementation: Contract Field Team

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	19 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.900
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	19 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.900

Installation Schedule

PYS	In	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	19
	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	19

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470009 / ASIP Increment I

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	37.154	0.000	0.000	-	-	-	-	-	-	-	-	37.154
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	37.154	0.000	0.000	-	-	-	-	-	-	-	-	37.154
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	37.154	0.000	0.000	-	-	-	-	-	-	-	-	37.154

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

USAF is divesting the Block 20 aircraft in FY21 and planning to divest Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

Airborne Signals Intelligence Payload (ASIP) Increment 1 incorporated additional signals and integrated advanced collection algorithms providing increased mission capability. It was a follow-on effort to the ASIP baseline program in compliance with SIGINT Capability Working Group priorities. The retrofit task implemented using the rotatable spares concept.

Milestone/Development Status

Development concluded in prior years.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods				Modification Number / Title: 470009 / ASIP Increment I				
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: RQ-4			Modification Type: Capability Improvement				Related RDT&E PEs: 0305220F					
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)
RDT&E PE #												
0305220F	- / 0.807	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.807
Procurement												
Modification Item 1 of 1: Group A Install Kits												
A Kits												
Recurring												
Group A Install Kits:INSTALL KITS Group A (Active)	15 / 1.895	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.895
<i>Subtotal: Recurring</i>	- / 1.895	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.895
B Kits												
Recurring												
Group A Install Kits:EQUIPMENT Group B (Active)	15 / 17.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 17.054
<i>Subtotal: Recurring</i>	- / 17.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.054
<i>Subtotal: Group A Install Kits</i>	- / 18.949	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.949
<i>Subtotal: Procurement, All Modification Items</i>	- / 18.949	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.949
Support (All Modification Items)												
OTHER GOVT	- / 3.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.046
Mod of Spare	15 / 15.159	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 15.159
<i>Subtotal: Support</i>	15 / 18.205	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 18.205
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	37.154	0.000	0.000	-	-	-	-	-	-	-	-	37.154

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods			Modification Number / Title: 470009 / ASIP Increment I	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: Group A Install Kits							
Manufacturer Information							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Palmdale, California			
Administrative Leadtime (in Months): 5				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): Org/Intermediate					Installation Quantity: 15		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470010 / SAR
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.910	-	-	-	-	-	-	-	-	-	-	0.910
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.910	-	-	-	-	-	-	-	-	-	-	0.910
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.910	-	-	-	-	-	-	-	-	-	-	0.910

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

USAF is divesting the Block 20 aircraft in FY21 and planning to divest Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

Synthetic Aperture Radar (SAR) incorporates SAR selectable Point Image Mode, for Detected and Complex Imagery into the Enhanced Integrated Sensor Suite (EISS). Software was developed and incorporated into fielded Global Hawk Integrated Functional Capability (IFC) 4.0.1.1. This modification was implemented on all Block 20 and Block 30 aircraft to include necessary revisions to the technical documentation. The major effort for this modification was updating the Phase Distortion Tables (PDT) of the Enhanced Receiver Exciter Controller (EREC).

Milestone/Development Status

Development concluded in prior years.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 **P-1 Line Item Number / Title:** HAWK00 / RQ-4 Mods **Modification Number / Title:** 470010 / SAR

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

Models of Systems Affected: RQ-4 **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0305220F

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Group B Calibration/Installation												
B Kits												
Recurring												
Group B Calibration/Installation:EQUIPMENT Group B (Active)	44 / 0.910	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 0.910
<i>Subtotal: Recurring</i>	- / 0.910	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.910
<i>Subtotal: Group B Calibration/Installation</i>	- / 0.910	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.910
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.910	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.910
Installation												
<i>Modification Item 1 of 1:</i> Group B Calibration/Installation	44 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 0.000
<i>Subtotal: Installation</i>	44 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / -
Total												
Total Cost (Procurement + Support + Installation)	0.910	-	-	-	-	-	-	-	-	-	-	0.910

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470010 / SAR
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 1: Group B Calibration/Installation

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, California
Administrative Leadtime (in Months): 5	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: Contractor Facility

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	44 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 0.000
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	44 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 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	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	44
Out	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	44

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470011 / ASIP Install/Calibration

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	4.834	-	-	-	-	-	-	-	-	-	-	4.834
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	4.834	-	-	-	-	-	-	-	-	-	-	4.834
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	4.834	-	-	-	-	-	-	-	-	-	-	4.834

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

USAF is divesting the Block 20 aircraft in FY21 and planning to divest Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

The program planned to convert all Block 30I air vehicles into Block 30M (Airborne Signals Intelligence Payload (ASIP) capable) air vehicles to meet Air Combat Command (ACC) requirements. The original retrofit plan was to convert eleven (11) Block 30I air vehicles into Block 30M capable air vehicles; however, this effort was halted by PB13. As a result, only three (3) of the eleven (11) Block 30Is were retrofitted. Subsequently, the remaining Block 30Is were to be retrofitted to Block 30M capable in a subsequent modification program. The funding was utilized to install and calibrate the ASIP units in the retrofitted Block 30M aircraft.

Milestone/Development Status

Development concluded in prior years.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods				Modification Number / Title: 470011 / ASIP Install/Calibration				
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:						
Models of Systems Affected: RQ-4			Modification Type: Capability Improvement				Related RDT&E PEs: 0305220F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Grp A Install Kits (2)												
A Kits												
Recurring												
Grp A Install Kits:INSTALL KITS Group A (Active)	6 / 0.920	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.920
<i>Subtotal: Recurring</i>	- / 0.920	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.920
<i>Subtotal: Grp A Install Kits (2)</i>	- / 0.920	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.920
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.920	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.920
Support (All Modification Items)												
Change Orders	- / 2.955	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.955
<i>Subtotal: Support</i>	- / 2.955	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.955
Installation												
<i>Modification Item 1 of 1:</i> Grp A Install Kits (2)	6 / 0.959	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.959
<i>Subtotal: Installation</i>	6 / 0.959	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.959
Total												
Total Cost (Procurement + Support + Installation)	4.834	-	-	-	-	-	-	-	-	-	-	4.834

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470011 / ASIP Install/Calibration
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 1: Grp A Install Kits (2)

Manufacturer Information

Manufacturer Name: Northrop Grumman Manufacturer Location: Palmdale, CA

Administrative Leadtime (in Months): 12 Production Leadtime (in Months): 3

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	6 / 0.959	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.959
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 0.959	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.959

Installation Schedule

PYS	In	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	6
	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	6

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470012 / MODE 5/ADS-B

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6.267	0.000	-	-	-	-	-	-	-	-	-	6.267
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6.267	0.000	-	-	-	-	-	-	-	-	-	6.267
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6.267	0.000	-	-	-	-	-	-	-	-	-	6.267

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

USAF is divesting the Block 20 aircraft in FY21 and planning to divest Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

Mode 5 is an enhancement to the legacy Mode 4 Identification, Friend or Foe (IFF) which has been in use since the mid-1950s for military identification. Mode 5 provides four graduated levels of data transmission with enhanced security protection and technology advances and includes question and answer identification/classified interrogation, position reporting capability, selective interrogation, and data exchange capability.

Automatic Dependent Surveillance-Broadcast (ADS-B) is a function for air vehicles that periodically transmits its state vector (positions/velocities) and other information to air traffic controllers. This allows air traffic controllers to know where the platform is as it enters a specific air space. Mode S, which gives more detailed information on the identity of aircraft to the air traffic controller, is also being implemented with this upgrade as part of the IFF hardware. ADS-B supports improved use of airspace and enhanced safety, and is required for use in the European theater by the International Civil Aviation Organization (European FAA). The Federal Aviation Administration (FAA) and DoD have mandated implementation by December 2024.

This program will retrofit fielded aircraft with Mode 5 by the end of Fiscal Year 2022.

Milestone/Development Status

Contract was awarded Mar 2016. Development is underway with a projected 38-month period of performance. The development will progress to a stage where the Contractor will be able to release documentation to commence kitting for retrofit. Therefore, certain retrofit activities began prior to full completion of development effort.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 **P-1 Line Item Number / Title:** HAWK00 / RQ-4 Mods **Modification Number / Title:** 470012 / MODE 5/ADS-B

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

Models of Systems Affected: RQ-4 **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0305220F

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)
RDT&E PE #												
0305220F	- / 2.303	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.303
Procurement												
Modification Item 1 of 1: Grp B Equipment												
B Kits												
Recurring												
Grp B Equipment:EQUIPMENT Group B (Active)	34 / 5.327	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 5.327
Subtotal: Recurring	- / 5.327	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.327
Subtotal: Grp B Equipment	- / 5.327	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.327
Subtotal: Procurement, All Modification Items	- / 5.327	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.327
Installation												
Modification Item 1 of 1: Grp B Equipment	34 / 0.940	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.940
Subtotal: Installation	34 / 0.940	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.940
Total												
Total Cost (Procurement + Support + Installation)	6.267	0.000	-	-	-	-	-	-	-	-	-	6.267

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470012 / MODE 5/ADS-B
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Grp B Equipment

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, California
Administrative Leadtime (in Months): 10	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: Contract Field Team

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	34 / 0.940	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.940
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	34 / 0.940	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.940

Installation Schedule

PYS	In	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	34
	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	34

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470013 / Sensor Enhancements

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	29.382	0.000	0.000	-	-	-	-	-	-	-	-	29.382
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	29.382	0.000	0.000	-	-	-	-	-	-	-	-	29.382
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	29.382	0.000	0.000	-	-	-	-	-	-	-	-	29.382

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

USAF is divesting the Block 20 aircraft in FY21 and planning to divest Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

This modification program includes the purchase and installation of Intelligence, Surveillance and Reconnaissance (ISR) Payload Adapters (IPAs), interface harnessing, Interchangeable Fairings (ICFs), as well as other related sensor enhancements. This Mod reflects nine (9) Blk 30 air vehicles to be retrofitted. IPAs provide a common air vehicle physical interface with an Open Mission Systems (OMS) software layer for payloads, which is expected to provide reduced cost and schedule air vehicle integration. IPAs to be installed on Airborne Signals Intelligence Payload (ASIP) capable aircraft.

Milestone/Development Status

Development concluded in prior years.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods					Modification Number / Title: 470013 / Sensor Enhancements			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: RQ-4				Modification Type: Capability Improvement				Related RDT&E PEs: 0305220F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Grp B Equipment (2)													
A Kits													
Recurring													
Grp B Equipment:INSTALL KITS Group A (Active)	3 / 3.621	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.621	
<i>Subtotal: Recurring</i>	- / 3.621	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.621	
B Kits													
Recurring													
Grp B Equipment:EQUIPMENT Group B (Active)	3 / 5.758	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.758	
<i>Subtotal: Recurring</i>	- / 5.758	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.758	
<i>Subtotal: Grp B Equipment (2)</i>	- / 9.379	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.379	
<i>Subtotal: Procurement, All Modification Items</i>	- / 9.379	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.379	
Support (All Modification Items)													
OTHER GOVT	- / 4.551	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.551	
Change Orders	- / 5.358	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.358	
<i>Subtotal: Support</i>	- / 9.909	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.909	
Installation													
<i>Modification Item 1 of 1:</i> Grp B Equipment (2)	3 / 10.094	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 10.094	
<i>Subtotal: Installation</i>	3 / 10.094	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 10.094	
Total													
Total Cost (Procurement + Support + Installation)	29.382	0.000	0.000	-	-	-	-	-	-	-	-	29.382	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470013 / Sensor Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 1: Grp B Equipment (2)

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, California
Administrative Leadtime (in Months): 10	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: Contract Field Team

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	3 / 10.094	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 10.094
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3 / 10.094	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 10.094

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	3	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	3	
Out	3	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	3	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470019 / Communication Interoperability/ Enhancements

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	3.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	3.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	3.000

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

USAF is divesting the Block 20 aircraft in FY21 and planning to divest Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

In order to support multiple worldwide missions for remote split operations (RSO), a long-term SATCOM reach back capability is required. RSO dictate the need for a secure SATCOM C3 long-haul transmission capability enabling the physical separation of the SATCOM wideband antenna from the Mission Control Element (MCE). This solution must support use of all Ku and Extended Tether Pod (ETP) antennae authorized for use with Global Hawk. The expected result of this capability allows the transmission of C3 over existing long haul circuitry using Asynchronous Transfer Mode (ATM) and Ethernet, enabling the needed geographical separation required to conduct worldwide RSO.

In order to accommodate the communication interoperability/enhancements long term technical solution for reach-back monitoring and address the diminishing manufacturing source (DMS) for the AP4000, there's a need for a reach-back capability upgrade pair that replaces both the AP4000 and Broadmore 500.

This project will replace the AP4000 and Broadmore 500s in the MCEs and Launch Recovery Elements (LRE) with a pair of reach-back capability upgrades. This will address the short term diminishing manufacturing source for the AP4000s and also enable a long term technical solution for reach-back monitoring.

The Global Hawk Program office has an existing relationship with the Space and Naval Warfare Systems Command (SPAWAR), which will allow for the fastest and least expensive method to purchase and install the equipment. Funding will also be used to update documentation through the Contractor.

SPAWAR will purchase all equipment, parts, and materials required for ten (10) upgrades.

The Program Office will upgrade legacy GH Ultra High Frequency (UHF) communications to satisfy USAF operational effectiveness, suitability, and flexibility objectives. This effort retrofits GH air vehicles, cockpits, and associated communication system equipment.

Milestone/Development Status

Development installation, test, and checkout accomplished in 2018 and early 2019. The production assets can be purchased prior to full completion of development work.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods							Modification Number / Title: 470019 / Communication Interoperability/ Enhancements			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:							
Models of Systems Affected: RQ-4				Modification Type: Capability Improvement				Related RDT&E PEs: 0305220F						
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1:</i> Group B Equipment														
A Kits														
Recurring														
Group B Equipment:INSTALL KITS Group A (Active)	34 / 0.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.450		
<i>Subtotal: Recurring</i>	- / 0.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.450		
B Kits														
Recurring														
Group B Equipment:EQUIPMENT Group B (Active)	34 / 1.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 1.750		
<i>Subtotal: Recurring</i>	- / 1.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.750		
<i>Subtotal: Group B Equipment</i>	- / 2.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.200		
<i>Subtotal: Procurement, All Modification Items</i>	- / 2.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.200		
Support (All Modification Items)														
Change Orders														
<i>Subtotal: Support</i>	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500		
Installation														
<i>Modification Item 1 of 1:</i> Group B Equipment														
<i>Subtotal: Installation</i>	34 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.300		
Total														
Total Cost (Procurement + Support + Installation)	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	3.000		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods	Modification Number / Title: 470019 / Communication Interoperability/ Enhancements

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: Group B Equipment

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, California
Administrative Leadtime (in Months): 10	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: Contract Field Team

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	34 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.300
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	34 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.300

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	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	34
Out	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	34

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
HCMC00 / HC/MC-130 Modifications

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207224F, 0207230F **Other Related Program Elements:** 0207224F, 0207230F

Line Item MDAP/MAIS Code: 257

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	362.694	76.573	147.993	138.956	-	138.956	123.650	185.228	207.900	91.312	0.000	1,334.306
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	362.694	76.573	147.993	138.956	-	138.956	123.650	185.228	207.900	91.312	0.000	1,334.306
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	362.694	76.573	147.993	138.956	-	138.956	123.650	185.228	207.900	91.312	0.000	1,334.306

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

HC/MC-130 Recapitalization will replace and augment the aging USAF fleets of combat rescue HC-130P/N, special operations MC-130E/P/H and AC-130H/U/W aircraft which are experiencing airworthiness, maintainability and operational limitations. This program provides a common baseline configuration aircraft.

The HC-130J aircraft provides combat search and rescue infiltration and exfiltration including aerial refueling of aircraft in combat search and rescue operations as well as acting as an airborne command post during rescue operations. The MC-130J can provide specialized mobility capability to position, supply, re-supply and recover specialized ground tactical units. The AC-130J is an MC-130J that has been highly modified to provide close air support and armed reconnaissance.

The modifications budgeted in FY 2021 will improve the reliability, maintainability, safety, mission performance, reduce logistics costs, and implement fleet upgrades and enhancements to meet emerging requirements for the HC/MC-130J aircraft and associated training systems. This modification permits the initiation and employment of rapid acquisition authorities to respond to emerging threats and requirements as needed.

Funding will support studies to reduce potential risks, potential Diminishing Manufacturing Sources (DMS) and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.

Funding for this exhibit is contained in PE 0207224F (HC-130J) and PE 0207230F (MC-130J).

FY 2021 funding totals \$58.02M for Overseas Contingency Operations.

As of 16 Dec 2021 there have been 113 HC/MC/AC-130J deliveries: 37 HC-130s, 45 MC-130Js and 31 AC-130Js. The designed service life is 30 years and the average service life remaining for an HC-130J is 25.2 years, MC-130J is 24.6 years and AC-130J is 25.9 years.

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force							Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: 0207224F, 0207230F			Other Related Program Elements: 0207224F, 0207230F				
Line Item MDAP/MAIS Code: 257										

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	76.573	138.993	138.956	-	138.956	119.835	185.228	207.900	91.312
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	9.000	-	-	-	2.543	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	1.272	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	76.573	147.993	138.956	-	138.956	123.650	185.228	207.900	91.312

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
HCMC00 / HC/MC-130 Modifications

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207224F, 0207230F **Other Related Program Elements:** 0207224F, 0207230F

Line Item MDAP/MAIS Code: 257

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-40a***	8765 / LAIRCM Updates (Reliability & Maintainability)				- / -	- / -	- / -	- / 0.515	- / -	- / 0.515
P-40a***	99999Y / MC-Low Cost Modifications (Other)				- / -	- / -	- / -	- / 0.050	- / -	- / 0.050
P-3a	5222 / HC/MC-130J Block 8.1 (Capability Improvement)		B		- / 9.492	- / 0.000	- / 15.820	- / 0.000	- / 0.000	- / 0.000
P-3a	8632 / MC-130J Increment 2 (Capability Improvement)		A		- / 39.379	- / 0.000	- / 0.285	- / 0.015	- / 0.000	- / 0.015
P-3a	8634 / HC-130J Common Configuration (Capability Improvement)		A		- / 44.809	- / 0.574	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	8635 / HC-130J Personnel Locator System (Capability Improvement)		B		- / 16.935	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	8636 / HC-130J Situational Awareness (Capability Improvement)		B		- / 85.231	- / 28.209	- / 0.567	- / 23.332	- / 0.000	- / 23.332
P-3a	8639 / Wireless Intercom (Capability Improvement)		B		- / 10.599	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	8642 / (AbMN) Airborne Mission Networking (Capability Improvement)		A		- / 52.047	- / 16.771	- / 45.195	- / 38.698	- / 0.000	- / 38.698
P-3a	8648 / ADS-B out Acceleration (Capability Improvement)		A		- / 2.175	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	8652 / (RFCM) Radio Frequency Countermeasures (Capability Improvement)		B		- / 57.241	- / 23.212	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	8658 / Paratroop Door (Capability Improvement)		B		- / 26.883	- / 0.000	- / 0.000	- / 12.472	- / 0.000	- / 12.472
P-3a	8659 / Broadband Antenna (Capability Improvement)		B		- / 9.400	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000
P-3a	8737 / HC-Communications Modernization Phase I (Capability Improvement)		B		- / -	- / 0.000	- / 0.000	- / 10.000	- / 0.000	- / 10.000
P-3a	8738 / HC-Communications Modernization Phase II (Capability Improvement)		B		- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	8760 / HC Trainer Modifications (Capability Improvement)		B		- / -	- / -	- / -	- / 20.000	- / 0.000	- / 20.000
P-3a	8761 / MC/AC-Communications Modernization Phase I (Capability Improvement)		B		- / 0.000	- / 0.000	- / 2.437	- / 20.638	- / 0.000	- / 20.638
P-3a	8762 / MC-130J Link 16 (Capability Improvement)		B		- / 0.000	- / 4.420	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	8763 / HC-130J Link 16 (Capability Improvement)		B		- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8764 / MC-Trainer Modifications (Capability Improvement)		B		- / 0.000	- / 0.000	- / 83.617	- / 12.332	- / 0.000	- / 12.332
P-3a	8767 / HC-Star XIII (Reliability & Maintainability)		B		- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8768 / HC-EO/IR Sensor Modification (Service Life Extension)		B		- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / HC- Low Cost Modifications (Safety)		B		- / 8.503	- / 3.387	- / 0.072	- / 0.904	- / 0.000	- / 0.904
P-40	Total Gross/Weapon System Cost				- / 362.694	- / 76.573	- / 147.993	- / 138.956	- / -	- / 138.956

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-40a***	8765 / LAIRCM Updates (Reliability & Maintainability)				- / 0.000	- / -	- / -	- / -	- / -	- / 0.515
P-40a***	99999Y / MC-Low Cost Modifications (Other)				- / -	- / -	- / -	- / -	- / -	- / 0.050
P-3a	5222 / HC/MC-130J Block 8.1 (Capability Improvement)		B		- / 26.200	- / 25.100	- / 40.900	- / 45.300	- / 0.000	- / 162.812

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
HCMC00 / HC/MC-130 Modifications

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207224F, 0207230F **Other Related Program Elements:** 0207224F, 0207230F

Line Item MDAP/MAIS Code: 257

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	8632 / MC-130J Increment 2 (Capability Improvement)		A		- / 0.000	- / 0.000	- / -	- / -	- / -	- / 39.679
P-3a	8634 / HC-130J Common Configuration (Capability Improvement)		A		- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / 45.383
P-3a	8635 / HC-130J Personnel Locator System (Capability Improvement)		B		- / 0.000	- / 0.000	- / -	- / -	- / -	- / 16.935
P-3a	8636 / HC-130J Situational Awareness (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 137.339
P-3a	8639 / Wireless Intercom (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 10.599
P-3a	8642 / (AbMN) Airborne Mission Networking (Capability Improvement)		A		- / 0.000	- / 9.988	- / 12.433	- / 12.686	- / 0.000	- / 187.818
P-3a	8648 / ADS-B out Acceleration (Capability Improvement)		A		- / 0.000	- / -	- / -	- / -	- / -	- / 2.175
P-3a	8652 / (RFCM) Radio Frequency Countermeasures (Capability Improvement)		B		- / 0.000	- / 0.000	- / 5.400	- / 0.000	- / 0.000	- / 85.853
P-3a	8658 / Paratroop Door (Capability Improvement)		B		- / 22.000	- / 18.300	- / 0.000	- / 0.000	- / 0.000	- / 79.655
P-3a	8659 / Broadband Antenna (Capability Improvement)		B		- / -	- / -	- / -	- / -	- / -	- / 9.400
P-3a	8737 / HC-Communications Modernization Phase I (Capability Improvement)		B		- / 10.762	- / 44.597	- / 34.507	- / 2.753	- / 0.000	- / 102.619
P-3a	8738 / HC-Communications Modernization Phase II (Capability Improvement)		B		- / 0.000	- / 3.540	- / 18.292	- / 0.000	- / 0.000	- / 21.832
P-3a	8760 / HC Trainer Modifications (Capability Improvement)		B		- / 9.100	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 29.100
P-3a	8761 / MC/AC-Communications Modernization Phase I (Capability Improvement)		B		- / 0.163	- / 0.545	- / 0.401	- / 0.467	- / 0.000	- / 24.651
P-3a	8762 / MC-130J Link 16 (Capability Improvement)		B		- / 0.000	- / 0.000	- / -	- / -	- / -	- / 4.420
P-3a	8763 / HC-130J Link 16 (Capability Improvement)		B		- / -	- / 1.700	- / 5.300	- / 0.000	- / 0.000	- / 7.000
P-3a	8764 / MC-Trainer Modifications (Capability Improvement)		B		- / 12.569	- / 28.959	- / 29.507	- / 30.106	- / 0.000	- / 197.090
P-3a	8767 / HC-Star XIII (Reliability & Maintainability)		B		- / 29.600	- / 47.499	- / 56.160	- / 0.000	- / 0.000	- / 133.259
P-3a	8768 / HC-EO/IR Sensor Modification (Service Life Extension)		B		- / 11.500	- / 0.000	- / 0.000	- / 0.000	- / -	- / 11.500
P-3a	1 / HC- Low Cost Modifications (Safety)		B		- / 1.756	- / 5.000	- / 5.000	- / 0.000	- / 0.000	- / 24.622
P-40	Total Gross/Weapon System Cost				- / 123.650	- / 185.228	- / 207.900	- / 91.312	- / 0.000	- / 1,334.306

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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, P-3A Mod 8658, Paratroop Door, is a new start.
 This program, P-3A Mod 8737, HC-Communications Modernization Phase I, is a new start.
 This program, P-3A Mod 8760, HC Trainer Modifications, is a new start.
 This program, P-3A Mod 8765, LAIRCM Updates, is a new start.
 This program, P-3A Mod 99999Y, MC-Low Cost Modifications, is a new start.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207224F, 0207230F	Other Related Program Elements: 0207224F, 0207230F
Line Item MDAP/MAIS Code: 257		

Primary efforts in FY 2023 include: HC-130J Situational Awareness, Paratroop Door, HC Trainer Modifications, HC-Communication Modernization Phase I, AbMN Airborne Mission Networking, LAIRCM Updates, MC/AC-Communication Modernization Phase I, and MC-Trainer Modifications.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 5222 / HC/MC-130J Block 8.1

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	9.492	0.000	15.820	0.000	0.000	0.000	26.200	25.100	40.900	45.300	0.000	162.812
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	9.492	0.000	15.820	0.000	0.000	0.000	26.200	25.100	40.900	45.300	0.000	162.812
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	9.492	0.000	15.820	0.000	0.000	0.000	26.200	25.100	40.900	45.300	0.000	162.812

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program funds unique HC-130J integration requirements for the Block 7.0/8.1 program. The C-130J Program (PE 0401132F) provides the Block 7.0/8.1 requirements that are common to all C-130J aircraft. The program will deliver Communication, Navigation and Surveillance/Air Traffic Management (CNS/ATM) capabilities required for compliance with evolving international standards, thereby allowing HC-130J aircraft to operate in international airspace. It also incorporates but is not limited to capabilities such as a new Flight Management System (FMS), Civil GPS Navigation and Data Link, Transponder including Identification Friend or Foe (IFF), Automatic Dependent Surveillance-Broadcast Out (ADS-B Out), Link-16 and 4th Communications/Navigation/Identification Management Unit (CNI-MU). This funding will support potentially Diminishing Manufacturing Sources (DMS) and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to, purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability.

In 2018 the USAF significantly revamped its HC-130J Block 7.0/8.1. upgrade strategy. The MC-130J was de-scoped from the current Block 7.0/8.1 program to allow the MC 130J to prioritize other (SOCOM-funded) modifications while allowing Air Combat Command (ACC) to move forward with Block 7.0/8.1 on the HC-130J.

The HC-130J Block 7.0/8.1 modification upgrade was under the ACAT I, but in FY 2022 was stood up a separate ACAT III program. The HC-130J Block 7.0/8.1 retrofit installation program funds the Group A and unique Group B parts that make up the HC-130J Block 7.0/8.1 retrofit kits, installation of retrofit kits, delta kit components, associated trainer efforts, and any other item required to field the HC 7.0-8.1 capability. The Common Core Group B parts in the HC-130J 7.0/8.1 retrofit kits are funded in the C-130J Block 7.0/8.1 program.

The Combat System Operator (CSO) 2.5 Station will be accelerated to meet dependent program schedule requirements and operational interoperability requirements under the Defensive System Suite Program. The Link 16 has been deferred due to funding shortages driven by the requirement to upgrade to the Multifunctional Information Distribution System Joint Tactical Radio System (LINK 16) (MIDS JTRs) vs LVT, but will be developed as a future spiral capability should additional funds become available.

The USAF will be fielding Combat System Operator (CSO) 2.5 Station (under the Defensive System Suite Program) portion of Block 7.0/8.1 separately accelerating install of this capability to meet dependent program schedule requirements and operational interoperability requirements.

This program will retrofit 39 HC-130Js. To date, the program has acquired five (5) kits (one using RDT&E funds, three (3) for production installation, and one (1) spare). Funding is programmed in FY 2022 to complete three (3) Gabreski ANG aircraft.

Milestone/Development Status

HC-130J Block 7.0/8.1 Trial Kit Install RDT&E project started in FY 2016 will be completed in FY 2022. Milestone C expected to be completed in FY 2023.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 5222 / HC/MC-130J Block 8.1
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
AF	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	6.820	-	-	-	26.200	25.100	40.900	45.300
AFNG	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	9.000	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	15.820	0.000	0.000	0.000	26.200	25.100	40.900

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 5222 / HC/MC-130J Block 8.1			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> HC 70/81 Kit												
A Kits												
Recurring												
HC 70/81 Kit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.000	6 / 7.800	6 / 8.000	6 / 8.200	- / -	22 / 29.000
HC 70/81 Kit:INSTALL KITS Group A (Guard)	3 / 6.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 6.834
<i>Subtotal: Recurring</i>	- / 6.834	- / -	- / -	- / -	- / -	- / -	- / 5.000	- / 7.800	- / 8.000	- / 8.200	- / -	- / 35.834
B Kits												
Recurring												
HC 70/81 Kit:EQUIPMENT Group B (Active)	3 / 2.658	- / -	- / -	- / -	- / -	- / -	4 / 1.400	6 / 2.200	6 / 2.200	6 / 2.300	- / -	25 / 10.758
<i>Subtotal: Recurring</i>	- / 2.658	- / -	- / -	- / -	- / -	- / -	- / 1.400	- / 2.200	- / 2.200	- / 2.300	- / -	- / 10.758
<i>Subtotal: HC 70/81 Kit</i>	- / 9.492	- / -	- / -	- / -	- / -	- / -	- / 6.400	- / 10.000	- / 10.200	- / 10.500	- / -	- / 46.592
<i>Subtotal: Procurement, All Modification Items</i>	- / 9.492	- / -	- / -	- / -	- / -	- / -	- / 6.400	- / 10.000	- / 10.200	- / 10.500	- / -	- / 46.592
Support (All Modification Items)												
OTHER GOVT	- / -	- / -	- / 4.300	- / -	- / -	- / -	- / 8.050	- / 5.975	- / 6.150	- / 5.425	- / -	- / 29.900
Mod of Spares	- / -	- / -	- / 0.350	- / -	- / -	- / -	- / 5.100	- / 2.700	- / 1.200	- / 0.075	- / -	- / 19.425
PSC - Other Gov't Costs	- / -	- / -	- / 1.700	- / -	- / -	- / -	- / 5.150	- / 5.025	- / 5.150	- / 5.100	- / -	- / 22.125
SUPPORT-EQUIP	- / -	- / -	- / 0.270	- / -	- / -	- / -	- / 0.100	- / 0.025	- / 0.025	- / 0.028	- / -	- / 0.448
SIM/TRAINER	- / -	- / -	- / 0.100	- / -	- / -	- / -	- / 0.100	- / 0.025	- / 5.000	- / 5.000	- / -	- / 10.225
ICS-Labor	- / -	- / -	- / 0.100	- / -	- / -	- / -	- / 1.300	- / 1.350	- / 1.300	- / 1.300	- / -	- / 15.350
<i>Subtotal: Support</i>	- / -	- / -	- / 6.820	- / -	- / -	- / -	- / 19.800	- / 15.100	- / 18.825	- / 16.928	- / -	- / 77.473
Installation												
<i>Modification Item 1 of 1:</i> HC 70/81 Kit	- / -	- / -	3 / 9.000	- / -	- / -	- / -	- / -	- / -	4 / 11.875	6 / 17.872	12 / 0.000	25 / 38.747
<i>Subtotal: Installation</i>	- / -	- / -	3 / 9.000	- / -	- / -	- / -	- / -	- / -	4 / 11.875	6 / 17.872	12 / -	25 / 38.747
Total												
Total Cost (Procurement + Support + Installation)	9.492	0.000	15.820	0.000	0.000	0.000	26.200	25.100	40.900	45.300	0.000	162.812

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 5222 / HC/MC-130J Block 8.1

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: HC 70/81 Kit

Manufacturer Information

Manufacturer Name: Lockheed Martin Aeronautics	Manufacturer Location: Marietta, Georgia
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 24

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates				Mar 2024	Mar 2025	Mar 2026	Mar 2027
Delivery Dates				Mar 2026	Mar 2027	Mar 2028	Mar 2029

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	3 / 9.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 9.000
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 11.875	- / -	- / -	4 / 11.875
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 17.872	- / -	6 / 17.872
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.000	6 / 0.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.000	6 / 0.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	3 / 9.000	- / -	- / -	- / -	- / -	- / -	4 / 11.875	6 / 17.872	12 / 0.000	25 / 38.747

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	0	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	3	3	12	25
Out	0	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	-	4	-	-	18	25

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8632 / MC-130J Increment 2

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	39.379	0.000	0.285	0.015	0.000	0.015	0.000	0.000	-	-	-	39.679
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	39.379	0.000	0.285	0.015	0.000	0.015	0.000	0.000	-	-	-	39.679
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	39.379	0.000	0.285	0.015	0.000	0.015	0.000	0.000	-	-	-	39.679

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MC-130J Increment 2 modification brings 10 MC-130J Increment 1 aircraft up to the baseline Increment 2 configuration. Current funding includes but is not limited to completing the total requirement of 10 aircraft modifications, adding LAIRCM Group A provisions, crashworthy loadmaster seats, increased electrical power, installation of specific enhanced situational awareness modifications, modifying MC-130J training systems. Additionally, this funding request includes, but is not limited to, supporting any safety of flight issues identified during the modification, Operational Flight Program (OFP) builds, training requirements, and potential Diminishing Manufacturing Sources (DMS), to include life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to, purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support (ICS), Data, and Program costs needed to field the capability. It also provides for the installation of specific SOF/PR modifications to the MC-130J aircraft such as, the Option X and Continuous Improvement Program (CIP) Modifications. Option X modification includes adding a fourth Communication, Navigation, Identification - Management Unit (CNI-MU) and associated wiring harnesses to MC-130J aircraft. CIP modification includes upgrading the Multi-Spectral Targeting System-A (MTS-A), Legacy Turret Unit and Electrical Unit to the MC-130J aircraft.

Installations in FY 2022 and FY 2023 are MC CIP and Option X installations due to COVID-19 pandemic delays. The installation schedule is notional. The Depot Field Teams (DFT) coordinate installations with the units as aircraft availability permits.

Eight (8) MC-130J Increment 1 aircraft have been delivered to units as Increment 2. All remaining kits were delivered by 9 Jun 2020.

Seven (7) MC-130J Option X modifications have been delivered. All remaining kits will be delivered by 30 Sep 2023.

33 MC-130J CIP upgraded modifications have been delivered. All remaining kits will be delivered by 31 Mar 2025.

Milestone/Development Status

Increment 2 development is complete.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.285	0.015	-	0.015	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8632 / MC-130J Increment 2
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	0.000	0.285	0.015	0.000	0.015	0.000	0.000	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8632 / MC-130J Increment 2			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: MC-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0207230F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Inc 1-2													
A Kits													
Recurring													
Inc 1-2:INSTALL KITS Group A (Active)	40 / 20.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 20.780	
<i>Subtotal: Recurring</i>	- / 20.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.780	
<i>Subtotal: Inc 1-2</i>	- / 20.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.780	
<i>Subtotal: Procurement, All Modification Items</i>	- / 20.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.780	
Support (All Modification Items)													
Change Orders	- / 1.227	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.227	
SIM/TRAINER	5 / 8.694	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 8.694	
<i>Subtotal: Support</i>	5 / 9.921	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 9.921	
Installation													
<i>Modification Item 1 of 1:</i> Inc 1-2	26 / 8.678	4 / 0.000	9 / 0.285	1 / 0.015	- / -	1 / 0.015	- / -	- / -	- / -	- / -	- / -	40 / 8.978	
<i>Subtotal: Installation</i>	26 / 8.678	4 / 0.000	9 / 0.285	1 / 0.015	- / -	1 / 0.015	- / -	- / -	- / -	- / -	- / -	40 / 8.978	
Total													
Total Cost (Procurement + Support + Installation)	39.379	0.000	0.285	0.015	0.000	0.015	0.000	0.000	-	-	-	39.679	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8632 / MC-130J Increment 2

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: Inc 1-2

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Marietta GA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contractor Facility

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	26 / 8.678	4 / 0.000	9 / 0.285	1 / 0.015	- / -	1 / 0.015	- / -	- / -	- / -	- / -	- / -	40 / 8.978
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	26 / 8.678	4 / 0.000	9 / 0.285	1 / 0.015	- / -	1 / 0.015	- / -	- / -	- / -	- / -	- / -	40 / 8.978

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	26	4	-	-	-	-	4	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	40
Out	22	4	4	-	-	-	1	4	3	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	40

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8634 / HC-130J Common Configuration

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	44.809	0.574	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	45.383
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	44.809	0.574	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	45.383
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	44.809	0.574	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	45.383

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The HC/MC-130J Common Configuration/Block Upgrade modifications includes upgrades to the Legacy Turret Units (TU) and Electronic Units (EU) and software which includes Removable Memory Module (RMM) cards with combined Option X and Continuous Improvement Program-1 (CIP-1) software as part of the CIP-1 Program. Option X program includes adding an additional fourth Communication, Navigation, Identification, Management Unit (CNI-MU) and associated wiring harness sets. This includes but is not limited to the support of retrofits, correction of deficiency report items identified during production, modifying HC/MC-130J training systems, supporting Operational Flight Program (OFP) builds, potential Diminishing Manufacturing Source (DMS) and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.

Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability.

Common Configuration/Block Upgrade modifications brought the first two HC-130J Increment 0 aircraft up to the baseline Increment 2 configuration which were completed in May 2018. Increment 2 also included adding LAIRCM Group A provisions, crashworthy loadmaster seats, and increased electrical power. These modifications ensure total fleet commonality and avoids many DMS issues. It also provides for the installation of specific special operation modifications to HC-130J aircraft. This HC-130J mod is related to the MC-130J Increment 2 Mod (Mod Number 8632) which includes 10 MC-130Js from the Increment 1 to the Increment 2 configuration and 57 MC-130J CIP upgrades and Option X modifications.

Installations in FY 2022 and FY 2023 are HC CIP and Option X installations due to COVID-19 pandemic delays.

Milestone/Development Status

Complete

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.574	0.000	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.574	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications						Modification Number / Title: 8634 / HC-130J Common Configuration		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:					
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Inc 0-2 Common Configuration												
A Kits												
Recurring												
Inc 0-2 Common Configuration:INSTALL KITS Group A (Active)	34 / 10.173	5 / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 10.443
<i>Subtotal: Recurring</i>	- / 10.173	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.443
<i>Subtotal: Inc 0-2 Common Configuration</i>	- / 10.173	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.443
<i>Subtotal: Procurement, All Modification Items</i>	- / 10.173	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.443
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 9.687	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.687
SIM/TRAINER	5 / 6.953	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 6.953
SUPPORT-EQUIP	- / 1.513	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.513
OTHER GOVT	- / 2.738	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.738
<i>Subtotal: Support</i>	5 / 20.891	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 20.891
Installation												
<i>Modification Item 1 of 1:</i> Inc 0-2 Common Configuration	32 / 13.745	2 / 0.304	5 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 14.049
<i>Subtotal: Installation</i>	32 / 13.745	2 / 0.304	5 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 14.049
Total												
Total Cost (Procurement + Support + Installation)	44.809	0.574	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	45.383

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8634 / HC-130J Common Configuration
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 1 of 1: Inc 0-2 Common Configuration

Manufacturer Information

Manufacturer Name: Lockheed Martin Aero Manufacturer Location: Marietta Ga

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

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

Installation Information

Method of Implementation: Contractor Facility

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	32 / 13.745	2 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 13.845
FY 2021	- / -	0 / 0.204	5 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.204
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	32 / 13.745	2 / 0.304	5 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 14.049

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	32	2	-	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	39	
Out	31	2	1	-	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	39	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8635 / HC-130J Personnel Locator System

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	16.935	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	16.935
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	16.935	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	16.935
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	16.935	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	16.935

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This is an update to the personnel recovery communication systems to include, but not limited to the lightweight airborne recovery system (LARS). This update was driven by the limited ability of the previous systems to connect to the emergency beacon frequency of 406 MHz or to connect with existing and future military survival radios such as the Combat Survivor Evader Locator (CSEL) AN/PRQ-7 or the AN/PRC-112. It is a secure system that uses two-way encrypted over-the-horizon data communications. The system has gone through developmental test (DT) and operational test (OT) and has been approved for fielding. This effort includes but is not limited to kits, training, tech data, Readiness Spares Package (RSP), Operation Flight Program (OFP) builds, and other government costs.

This funding will support potential Diminishing Manufacturing Source (DMS) and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability.

The LARS program will equip all 39 HC-130J aircraft that will be in the fleet. 30 kits and installs are completed. Four (4) additional kits will be installed in FY 2021 which have been purchased, along with the remaining two (2) kits scheduled for installation in FY 2022, thus completing all initial installations.

Realigned FY 2019 funding from LARS (Mod Number 8635) to Paratroop Door (Mod Number 8658) for increased proposed hardware cost.
Realigned FY 2021 funding from LARS (Mod Number 8635) to HC Low Cost Modifications (Mod Number 99999X) for unfunded requirements.

Milestone/Development Status

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
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.000	0.000	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications							Modification Number / Title: 8635 / HC-130J Personnel Locator System			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:							
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F						
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1: Personnel Locator System</i>														
A Kits														
Recurring														
Personnel Locator System:INSTALL KITS Group A (Active)	39 / 1.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 1.383		
<i>Subtotal: Recurring</i>	- / 1.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.383		
B Kits														
Recurring														
Personnel Locator System:EQUIPMENT Group B (Active)	39 / 6.742	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 6.742		
<i>Subtotal: Recurring</i>	- / 6.742	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.742		
<i>Subtotal: Personnel Locator System</i>	- / 8.125	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.125		
<i>Subtotal: Procurement, All Modification Items</i>	- / 8.125	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.125		
Support (All Modification Items)														
GROUP A: TOTAL NONRECURRING	- / 0.491	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.491		
OTHER GOVT	- / 0.227	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.227		
Data	- / 0.233	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.233		
SUPPORT-EQUIP	- / 0.679	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.679		
PSC - Contractor Services	- / 0.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.481		
Mod of Spares	- / 2.353	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.353		
<i>Subtotal: Support</i>	- / 4.464	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.464		
Installation														
<i>Modification Item 1 of 1: Personnel Locator System</i>	33 / 4.346	4 / 0.000	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 4.346		
<i>Subtotal: Installation</i>	33 / 4.346	4 / 0.000	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 4.346		
Total														
Total Cost (Procurement + Support + Installation)	16.935	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	16.935		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8635 / HC-130J Personnel Locator System

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: Personnel Locator System

Manufacturer Information

Manufacturer Name: Cubic, Inc.	Manufacturer Location: San Diego, CA
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 4

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

Installation Information

Method of Implementation: Contract Field Team

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	33 / 4.346	4 / 0.000	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 4.346
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	33 / 4.346	4 / 0.000	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 4.346

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	33	-	-	-	4	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	39	
Out	33	-	-	-	4	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	39		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8636 / HC-130J Situational Awareness

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	85.231	28.209	0.567	23.332	0.000	23.332	0.000	0.000	0.000	0.000	0.000	137.339
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	85.231	28.209	0.567	23.332	0.000	23.332	0.000	0.000	0.000	0.000	0.000	137.339
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	85.231	28.209	0.567	23.332	0.000	23.332	0.000	0.000	0.000	0.000	0.000	137.339

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Equips HC-130J Personnel Recovery fleet with situational awareness capabilities to increase, maintain, and sustain the personnel recovery task force's ability to rapidly exchange secure information between disparate tactical network systems and enable onboard, real time situational awareness. The Situational Awareness Capabilities Upgrade (SACU) Program is implemented in phases.

SACU Phase 1A equips the HC-130J fleet with 5 situational awareness capabilities (Situational Awareness Data Link (SADL), Blue Force Tracking (BFT), PRC-117 High Performance Waveform (HPW), Air Force Tactical Receiver System-Ruggedized (AFTRS-R) and Joint Precision Aerial Delivery system (JPADS) which were inherent in legacy aircraft. SACU Phase 1B equips the HC-130J fleet with Video Data Link and Special Communications Radios. SACU Phase 2 is intended to equip the HC-130J with Blue Force Tracking 2 (BFT-2), replaces Combat System Officer (CSO) laptops with solid state server and Video Display Terminal (VDT), Video Encoder, additional Ethernet connections in cargo area, and replaces the federated situational awareness software suite to include the Joint Mission Planning System (JMPS) interface. However, in 2021, ACC descoped the BFT-2 requirement due to the Army sun-setting that capability. In addition, due to funding limitations, the Air Force is re-evaluating SACU priorities and will field as many priorities as possible within current funding.

Interim Link 16 capability is being implemented for 35 HC-130J aircraft.

This funding profile provides the support needed to procure and install SACU on 39 HC-130J aircraft, as well as the field support required. This funding request includes, but is not limited to Diminishing Manufacturing Sources (DMS) and obsolescence solutions including (if optimal) life of type buys or bridge buys limited to the program of record quantity; Changes to existing SACU configurations and/or capabilities; Upgrades to simulators/training devices; Interim Contractor Support (ICS) requirements; purchase of Government Furnished Equipment, Pub/Tech Data, Data, Program costs needed to field the capability; and, to address Field Support needs such as Training, Interim Supply Support, and Support equipment.

SACU is required on 39 HC-130Js and each Phase has its own retrofit schedule. Total installs in this P-3A include all phases for a total of 110 retrofits. The retrofits are being awarded on contract as grouped retrofits to gain synergy and minimize costs; therefore they are not reported separately in this P-3A. Additionally, costs per kit vary from year-to-year based upon the various kits for each phase being procured.

Per direction from SAF/AQ, HC/MC has been directed to follow the Re-engineered Supply Support Program (RSSP) policy direction dated 11 Feb 2000, to procure initial spares with program funding. The line in the funding table labeled "Mod of Spares" is the procurement of initial spares.

FY 2021 proposal costs for 20 kits and installs came in higher than expected. Therefore, \$5.688M was realigned to SACU within 11400M BPAC.

FY 2021 funding includes \$28.161M for Overseas Contingency Operations.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8636 / HC-130J Situational Awareness
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Realigned FY 2019 funding from SACU for increased proposed hardware cost for Paratroop Door (Mod Number 8658).

Milestone/Development Status

Phase 1A - MS C, 17 Dec 15 - Completed 36 of 39 installs

Phase 1B - MS C, 31 May 16 - Completed 19 of 39 installs

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	28.209	0.567	23.332	-	23.332	0.000	0.000	0.000	-
Total:	-	-	-	-	-	-	-	-	-
Secondary Distribution	28.209	0.567	23.332	0.000	23.332	0.000	0.000	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8636 / HC-130J Situational Awareness			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Situational Awareness													
A Kits													
Recurring													
Situational Awareness:INSTALL KITS Group A (Active)	71 / 8.604	23 / 5.851	- / -	16 / 1.657	- / -	16 / 1.657	- / -	- / -	- / -	- / -	- / -	110 / 16.112	
<i>Subtotal: Recurring</i>	- / 8.604	- / 5.851	- / -	- / 1.657	- / -	- / 1.657	- / -	- / -	- / -	- / -	- / -	- / 16.112	
B Kits													
Recurring													
Situational Awareness:EQUIPMENT Group B (Active)	71 / 19.083	23 / 10.885	- / -	16 / 6.627	- / -	16 / 6.627	- / -	- / -	- / -	- / -	- / -	110 / 36.595	
<i>Subtotal: Recurring</i>	- / 19.083	- / 10.885	- / -	- / 6.627	- / -	- / 6.627	- / -	- / -	- / -	- / -	- / -	- / 36.595	
<i>Subtotal: Situational Awareness</i>	- / 27.687	- / 16.736	- / -	- / 8.284	- / -	- / 8.284	- / -	- / -	- / -	- / -	- / -	- / 52.707	
<i>Subtotal: Procurement, All Modification Items</i>	- / 27.687	- / 16.736	- / -	- / 8.284	- / -	- / 8.284	- / -	- / -	- / -	- / -	- / -	- / 52.707	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 10.516	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.516	
PSC - Other Gov't Costs	- / 0.900	- / -	- / 0.100	- / 0.022	- / -	- / 0.022	- / -	- / -	- / -	- / -	- / -	- / 1.022	
Data	- / 0.005	- / -	- / 0.030	- / 0.360	- / -	- / 0.360	- / -	- / -	- / -	- / -	- / -	- / 0.395	
Type 1 Training	- / -	- / -	- / -	- / 0.085	- / -	- / 0.085	- / -	- / -	- / -	- / -	- / -	- / 0.085	
OTHER GOVT	- / 3.405	- / 0.070	- / 0.067	- / 5.011	- / -	- / 5.011	- / -	- / -	- / -	- / -	- / -	- / 8.553	
Mod of Spares	- / 2.550	- / -	- / 0.210	- / 1.250	- / -	- / 1.250	- / -	- / -	- / -	- / -	- / -	- / 4.010	
PSC - Contractor Services	- / 2.467	- / 0.200	- / 0.110	- / 5.548	- / -	- / 5.548	- / -	- / -	- / -	- / -	- / -	- / 8.325	
ICS-Labor	- / 6.757	- / 0.030	- / 0.020	- / 0.510	- / -	- / 0.510	- / -	- / -	- / -	- / -	- / -	- / 7.317	
SIM/TRAINER	1 / 8.814	- / -	- / -	- / 0.001	- / -	- / 0.001	- / -	- / -	- / -	- / -	- / -	1 / 8.815	
SUPPORT-EQUIP	- / 0.189	- / -	- / 0.030	- / 0.149	- / -	- / 0.149	- / -	- / -	- / -	- / -	- / -	- / 0.368	
<i>Subtotal: Support</i>	1 / 35.603	- / 0.300	- / 0.567	- / 12.936	- / -	- / 12.936	- / -	- / -	- / -	- / -	- / -	1 / 49.406	
Installation													
<i>Modification Item 1 of 1:</i> Situational Awareness	52 / 21.941	4 / 11.173	5 / 0.000	10 / 2.112	- / -	10 / 2.112	12 / 0.000	12 / 0.000	15 / 0.000	- / -	- / -	110 / 35.226	
<i>Subtotal: Installation</i>	52 / 21.941	4 / 11.173	5 / 0.000	10 / 2.112	- / -	10 / 2.112	12 / 0.000	12 / 0.000	15 / 0.000	- / -	- / -	110 / 35.226	
Total													
Total Cost (Procurement + Support + Installation)	85.231	28.209	0.567	23.332	0.000	23.332	0.000	0.000	0.000	0.000	0.000	137.339	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8636 / HC-130J Situational Awareness
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Situational Awareness

Manufacturer Information

Manufacturer Name: Lockheed Martin Missiles and Fire Control Manufacturer Location: Lexington, KY

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contractor Facility

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	52 / 21.941	4 / 0.000	5 / 0.000	10 / 0.000	- / -	10 / 0.000	- / -	- / -	- / -	- / -	- / -	71 / 21.941
FY 2021	- / -	0 / 11.173	- / -	- / -	- / -	- / -	12 / 0.000	11 / 0.000	- / -	- / -	- / -	23 / 11.173
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 2.112	- / -	0 / 2.112	- / -	1 / 0.000	15 / 0.000	- / -	- / -	16 / 2.112
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	52 / 21.941	4 / 11.173	5 / 0.000	10 / 2.112	- / -	10 / 2.112	12 / 0.000	12 / 0.000	15 / 0.000	- / -	- / -	110 / 35.226

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	52	0	0	0	4	0	2	2	1	2	3	3	2	2	4	4	2	2	4	4	2	2	5	5	3	-	-	-	-	0	110
Out	52	0	0	0	4	0	2	2	1	2	3	3	2	2	4	4	2	2	4	4	2	2	5	5	3	-	-	-	-	0	110

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8639 / Wireless Intercom

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	10.599	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.599
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	10.599	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.599
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	10.599	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.599

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

No FY 2022 Funding Requested.

This is an update to inter-phone communication system (ICS) to include, but not limited to, the integration of a wireless extension to the ICS. This update is an encrypted system that is compatible with approved headsets, helmets, and oxygen masks and allows the loadmaster and other crew to wirelessly communicate with crew members in normal, push-to-talk, and voice activated mode (VOX). In addition to added wireless capability to the current ICS this upgrade also allows maintenance and forward area refueling point (FARP) crew to utilize ICS rather than relying on hand signals. This effort includes but is not limited to kits, training, tech data, Readiness Spares Package (RSPs), Operational Flight Program (OFF) builds, and other government costs. This is a non-developmental, commercially off the shelf available system. Total requirement to be procured and installed is up to 64 MC-130J aircraft. This funding will support potential DMS and obsolescence solutions to include, if optimal, life of type buys or bridge buys limited to the program of record quantity.

In 2019, an Integrated Secure Wireless Inter-Communication System (ISWICS) unit was acquired from SCI (sensitive compartmented information) Technology, Incorporated for demo purposes. The final report for this demonstration was received in Jan 2021 and HQ AFSOC deemed the ISWICS system not adequate.

The new strategy to satisfy the wireless ICS requirement is to leverage the ICS design work completed under the MC-130J Airborne Mission Networking (AbMN) program and task the AbMN vendor to integrate a wireless system with the remaining funds.

Milestone/Development Status

Contract was awarded on 23 September 2021.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications						Modification Number / Title: 8639 / Wireless Intercom		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F, 0207230F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Wireless Interphone Communication System												
B Kits												
Recurring												
Wireless Interphone Communication System:EQUIPMENT Group B (Active)	57 / 10.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	57 / 10.099
<i>Subtotal: Recurring</i>	- / 10.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.099
<i>Subtotal: Wireless Interphone Communication System</i>	- / 10.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.099
<i>Subtotal: Procurement, All Modification Items</i>	- / 10.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.099
Support (All Modification Items)												
PSC - Other Gov't Costs	0 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.500
<i>Subtotal: Support</i>	0 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.500
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	10.599	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.599

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 8639 / Wireless Intercom	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: Wireless Interphone Communication System							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 8			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 57		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8642 / (AbMN) Airborne Mission Networking

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	52.047	16.771	45.195	38.698	0.000	38.698	0.000	9.988	12.433	12.686	0.000	187.818
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	52.047	16.771	45.195	38.698	0.000	38.698	0.000	9.988	12.433	12.686	0.000	187.818
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	52.047	16.771	45.195	38.698	0.000	38.698	0.000	9.988	12.433	12.686	0.000	187.818

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AbMN is AFSOC's key enabler for Joint All-Domain Command and Control in modern conflict environments; it is a net-centric capability to improve tactical decision making by creating a correlated, common operating picture and provides for enhanced, digital collaboration with Combat Air Forces and Coalition partners. This modification equips the MC-130J with the service common hardware to satisfy the USAF Airborne Networking mandate as well as AFSOC's communication tactical datalink capability requirements as stated in the USSOCOM Airborne Mission Networking Capabilities Development Document, dated 6 January 2016. The service common hardware will be permanently integrated in the MC-130J aircraft as part of USSOCOMs AbMN modification and provides capabilities that include Beyond Line of Site, Line of Site, and Full Motion Video datalink. This funding request will support potential Diminishing Manufacturing Sources (DMS) and obsolescence solutions to include, if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of government furnished equipment, trainers/simulators, pub/tech data, Interim Contractor Support, data, kits, training, spares, deployment packages, program costs needed to field the capability and other government costs.

Per direction from SAF/AQ, HC/MC has been directed to follow the Re-engineered Supply Support Program (RSSP) policy direction dated 11 Feb 2000, to procure initial spares with program funding. The line in the funding table labeled "Mod of Spares" is the procurement of initial spares.

Requirement is 57 MC-130J aircrafts.

This program provides the AF service common hardware for USSOCOM PE (1160403BB). USSOCOM funds the integration and installation of the AF service common hardware as part of its AbMN program.

Milestone/Development Status

Milestone Development Status:

Milestone B; LRIP start 3QFY20, Milestone C 3QFY22

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	16.771	45.195	38.698	-	38.698	-	9.988	12.433	12.686
Total:	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8642 / (AbMN) Airborne Mission Networking

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	16.771	45.195	38.698	0.000	38.698	0.000	9.988	12.433	12.686

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8642 / (AbMN) Airborne Mission Networking

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Models of Systems Affected: MC-130J	Modification Type: Capability Improvement	Related RDT&E PEs: 0207230F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> AbMNGroup B												
B Kits												
Recurring												
AbMNGroup B:EQUIPMENT Group B (Active)	8 / 45.815	1 / 8.310	4 / 19.280	5 / 24.100	- / -	5 / 24.100	- / -	2 / 9.240	2 / 9.240	2 / 9.350	- / -	24 / 125.335
<i>Subtotal: Recurring</i>	- / 45.815	- / 8.310	- / 19.280	- / 24.100	- / -	- / 24.100	- / -	- / 9.240	- / 9.240	- / 9.350	- / -	- / 125.335
<i>Subtotal: AbMNGroup B</i>	- / 45.815	- / 8.310	- / 19.280	- / 24.100	- / -	- / 24.100	- / -	- / 9.240	- / 9.240	- / 9.350	- / -	- / 125.335
<i>Subtotal: Procurement, All Modification Items</i>	- / 45.815	- / 8.310	- / 19.280	- / 24.100	- / -	- / 24.100	- / -	- / 9.240	- / 9.240	- / 9.350	- / -	- / 125.335
Support (All Modification Items)												
SIM/TRAINER	- / 0.462	- / 8.183	- / 14.212	- / 5.423	- / -	- / 5.423	- / -	- / 0.050	- / 0.050	- / 0.050	- / -	- / 28.430
ICS-Material	- / -	- / -	- / 0.001	- / 1.145	- / -	- / 1.145	- / -	- / 0.100	- / 0.202	- / 0.005	- / -	- / 1.453
ICS-Labor	- / -	- / -	- / -	- / 0.463	- / -	- / 0.463	- / -	- / 0.095	- / 0.146	- / 0.153	- / -	- / 0.857
PSC - Other Gov't Costs	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.400
Mod of Spares	- / 5.179	- / 0.027	- / 4.689	- / 2.467	- / -	- / 2.467	- / -	- / 0.203	- / 2.451	- / 3.003	- / -	- / 18.019
OTHER GOVT	- / 0.591	- / 0.251	- / 7.013	- / 5.000	- / -	- / 5.000	- / -	- / 0.200	- / 0.244	- / 0.025	- / -	- / 13.324
<i>Subtotal: Support</i>	- / 6.232	- / 8.461	- / 25.915	- / 14.598	- / -	- / 14.598	- / -	- / 0.748	- / 3.193	- / 3.336	- / -	- / 62.483
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	52.047	16.771	45.195	38.698	0.000	38.698	0.000	9.988	12.433	12.686	0.000	187.818

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 8642 / (AbMN) Airborne Mission Networking	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 1: AbMNGroup B							
Manufacturer Information							
Manufacturer Name: Sierra Nevada Corporation				Manufacturer Location: Centennial, CO			
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	Jan 2023		Jan 2025	Jan 2026	Jan 2027
Delivery Dates	Dec 2021	Dec 2022	Jan 2024		Jan 2026	Jan 2027	Jan 2028
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 24		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8648 / ADS-B out Acceleration

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2.175	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	-	2.175
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2.175	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	-	2.175
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2.175	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	-	2.175

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding is used to improve compliance with USG and international mandates that allow HC/MC-130Js to utilize US and international airspace. This includes, but is not limited to the Automatic Dependent Surveillance-Broadcast (ADS-B) Out program. HC/MC-130J is a part of the C-130J ADS-B Acceleration program which separated the ADS-B Out program from the 7.0/8.1 Program. The C-130J ADS-B Out program addresses the Federal Aviation Administration/International Civil Aviation Organization (FAA/ICAO) Communications/Navigation/Surveillance and Air Traffic Management (CNS/ATM) mandate. Aircraft not installed with ADS-B Out during production will be modified immediately after production delivery, prior to delivery to units.

Milestone/Development Status

Retrofits completed on 31 March 2020.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications						Modification Number / Title: 8648 / ADS-B out Acceleration			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: MC-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0207230F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Group A													
A Kits													
Recurring													
Group A:INSTALL KITS Group A (Active)	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	
<i>Subtotal: Recurring</i>	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	
<i>Subtotal: Group A</i>	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	
Support (All Modification Items)													
PSC - Contractor Services	- / 0.695	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.695	
OTHER GOVT	- / 0.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.480	
<i>Subtotal: Support</i>	- / 1.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.175	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	2.175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	2.175	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 8648 / ADS-B out Acceleration	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 1: Group A							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Marietta, GA			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 5			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8652 / (RFCM) Radio Frequency Countermeasures

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	57.241	23.212	0.000	0.000	0.000	0.000	0.000	0.000	5.400	0.000	0.000	85.853
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	57.241	23.212	0.000	0.000	0.000	0.000	0.000	0.000	5.400	0.000	0.000	85.853
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	57.241	23.212	0.000	0.000	0.000	0.000	0.000	0.000	5.400	0.000	0.000	85.853

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The HC-130J Radio Frequency Countermeasures (RFCM) program procures and installs the Defensive System Suite (DSS) which includes the ALQ-253 (Countermeasures Signal Processor), Advanced Threat Display (ATD) and Countermeasures Dispensing System (CMDS) two-position yoke switch kits to allow the HC-130J to operate in contested environments. DSS will also include the CSO 2.5 Block 6.5 redesign is required for the DSS modification. The DSS program includes but it is not limited to equipment, associated support requirements, Operational Flight Program (OFP) builds, training, training device updates, spares, Diminishing Manufacturing Source (DMS) and Interim Contractor Support. Program funding includes, but is not limited to, purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Data, and Program costs needed to field the capability.

Per direction from SAF/AQ, HC/MC has been directed to follow the Re-engineered Supply Support Program (RSSP) policy direction dated 11 Feb 2000, to procure initial spares with program funding. The line in the funding table labeled "Mod of Spares" is the procurement of initial spares.

The Group A and B parts that make the entire RFCM kit cost in FY 2019 and FY 2021 also include the costs for the CSO 2.5 delta kits that have been added to RFCM; therefore, the per unit kit cost is more.

The requirement is for 39 HC-130Js. Current funding includes the 39 HC-130J aircraft.

FY 2021 funds include \$28.900M for Overseas Contingency Operations.

Realigned \$5.288 of FY 2019 and \$5.688M of FY 2021 funding from DSS for increased proposed cost for Situational Awareness for SACU 1B+20 kits and installs.

Milestone/Development Status

The program has entered Milestone C and has awarded a contract for Non-Recurring Engineering (NRE)/Trial Kit Installation (TKI), purchase of Group B items and installation on the HC-130J fleet. An Un-definitized Contracting Action (UCA) was awarded in September 2020 to include procurement and installation of the CSO 2.5 kits. Definitization was awarded 29 September 2021.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	23.212	-	-	-	-	-	-	5.400	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force							Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications				Modification Number / Title: 8652 / (RFCM) Radio Frequency Countermeasures			
ID Code (A=Service Ready, B=Not Service Ready) : B					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:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	23.212	0.000	0.000	0.000	0.000	0.000	0.000	5.400	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications							Modification Number / Title: 8652 / (RFCM) Radio Frequency Countermeasures		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> RFCM													
A Kits													
Recurring													
RFCM:INSTALL KITS Group A (Active)	35 / 4.406	4 / 4.422	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	39 / 8.829	
<i>Subtotal: Recurring</i>	- / 4.406	- / 4.422	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	- / 8.829	
B Kits													
Recurring													
RFCM:EQUIPMENT Group B (Active)	35 / 17.619	4 / 17.689	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	39 / 35.309	
<i>Subtotal: Recurring</i>	- / 17.619	- / 17.689	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	- / 35.309	
<i>Subtotal: RFCM</i>	- / 22.025	- / 22.111	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.002	- / -	- / -	- / 44.138	
<i>Subtotal: Procurement, All Modification Items</i>	- / 22.025	- / 22.111	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.002	- / -	- / -	- / 44.138	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 22.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.430	
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	- / 0.001	
Change Orders	- / -	- / 1.065	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	- / 1.066	
SIM/TRAINER	- / 5.961	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.390	- / -	- / -	- / 11.351	
ICS-Material	- / 0.022	- / 0.035	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	- / 0.058	
OTHER GOVT	- / 0.069	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	- / 0.070	
Mod of Spares	- / 5.689	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	- / 5.690	
Type 1 Training	- / 0.786	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	- / 0.787	
PSC - Other Gov't Costs	- / -	- / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	- / 0.002	
SUPPORT-EQUIP	- / 0.259	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / -	- / -	- / 0.260	
<i>Subtotal: Support</i>	- / 35.216	- / 1.101	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.398	- / -	- / -	- / 41.715	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	57.241	23.212	0.000	0.000	0.000	0.000	0.000	0.000	5.400	0.000	0.000	85.853	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 8652 / (RFCM) Radio Frequency Countermeasures	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: RFCM							
Manufacturer Information							
Manufacturer Name: Lockheed Martin Aero				Manufacturer Location: Marietta, GA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Sep 2021						
Delivery Dates	Sep 2022						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 39		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8658 / Paratroop Door

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	26.883	0.000	0.000	12.472	0.000	12.472	22.000	18.300	0.000	0.000	0.000	79.655
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	26.883	0.000	0.000	12.472	0.000	12.472	22.000	18.300	0.000	0.000	0.000	79.655
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	26.883	0.000	0.000	12.472	0.000	12.472	22.000	18.300	0.000	0.000	0.000	79.655

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 8658, Paratroop Door, is a new start.

HC-130J Upgraded Paratroop Door System will upgrade the paratroop door system that combines improved visual scanning, armor, and a spring-loaded counter balance system that alleviates damage to paratroop doors, facilitates operation, and egress with armor installed.

This requirement is documented on AF Form 1067, #17-309.

This funding includes but is not limited to purchasing kits associated training, support requirements, tech data, spares, deployment packages, Diminishing Manufacturing Source (DMS), and other government costs.

This funding will support potential DMS and obsolescence solutions to include, if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability.

Requirement is for 39 HC-130J aircrafts.

FY 2019 proposal costs for 18 kits came in higher than expected, therefore \$1.611M was realigned to Paratroop Door within 11400M BPAC.

Due to different installation methodologies there is a breakout of 28 Paratroop Door kits for Depot Field team installation and 11 Paratroop Door Kits for Organic installation in the P3-A Funding Section.

Milestone/Development Status

Development Complete.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	12.472	-	12.472	22.000	18.300	0.000	-
Total:	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8658 / Paratroop Door
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Secondary Distribution	Total Obligation Authority	0.000	0.000	12.472	0.000	12.472	22.000	18.300	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications						Modification Number / Title: 8658 / Paratroop Door		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 2: Paratroop Door - DFT</i>												
B Kits												
Recurring												
Paratroop Door - DFT:EQUIPMENT Group B (Active)	8 / 11.741	- / -	- / -	7 / 11.200	- / -	7 / 11.200	12 / 20.400	1 / 2.500	- / -	- / -	- / -	28 / 45.841
<i>Subtotal: Recurring</i>	- / 11.741	- / -	- / -	- / 11.200	- / -	- / 11.200	- / 20.400	- / 2.500	- / -	- / -	- / -	- / 45.841
<i>Subtotal: Paratroop Door - DFT</i>	- / 11.741	- / -	- / -	- / 11.200	- / -	- / 11.200	- / 20.400	- / 2.500	- / -	- / -	- / -	- / 45.841
<i>Modification Item 2 of 2: Paratroop Kits</i>												
B Kits												
Recurring												
Paratroop Kits:EQUIPMENT Group B (Active)	11 / 15.142	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 15.142
<i>Subtotal: Recurring</i>	- / 15.142	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.142
<i>Subtotal: Paratroop Kits</i>	- / 15.142	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.142
<i>Subtotal: Procurement, All Modification Items</i>	- / 26.883	- / -	- / -	- / 11.200	- / -	- / 11.200	- / 20.400	- / 2.500	- / -	- / -	- / -	- / 60.983
Support (All Modification Items)												
SUPPORT-EQUIP	- / -	- / -	- / -	- / 0.392	- / -	- / 0.392	- / 0.049	- / 0.147	- / -	- / -	- / -	- / 0.588
Data	- / -	- / -	- / -	- / 0.300	- / -	- / 0.300	- / 0.041	- / 0.255	- / -	- / -	- / -	- / 0.596
PSC - Other Gov't Costs	- / -	- / -	- / -	- / 0.001	- / -	- / 0.001	- / 0.490	- / 5.350	- / -	- / -	- / -	- / 5.841
ICS-Labor	- / -	- / -	- / -	- / 0.001	- / -	- / 0.001	- / 0.001	- / 1.567	- / -	- / -	- / -	- / 1.569
OTHER GOVT	- / -	- / -	- / -	- / 0.001	- / -	- / 0.001	- / 0.501	- / 5.650	- / -	- / -	- / -	- / 6.152
ICS-Material	- / -	- / -	- / -	- / 0.001	- / -	- / 0.001	- / 0.014	- / 1.895	- / -	- / -	- / -	- / 1.910
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 0.696	- / -	- / 0.696	- / 1.096	- / 14.864	- / -	- / -	- / -	- / 16.656
Installation												
<i>Modification Item 1 of 2: Paratroop Door - DFT</i>												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	8 / 0.576	- / -	8 / 0.576	0 / 0.504	7 / 0.936	13 / 0.000	- / -	- / -	28 / 2.016
<i>Subtotal: Installation</i>	- / -	- / -	- / -	8 / 0.576	- / -	8 / 0.576	- / 0.504	7 / 0.936	13 / 0.000	- / -	- / -	28 / 2.016
Total												
Total Cost (Procurement + Support + Installation)	26.883	0.000	0.000	12.472	0.000	12.472	22.000	18.300	0.000	0.000	0.000	79.655

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022																				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5						P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications						Modification Number / Title: 8658 / Paratroop Door																			
ID Code (A=Service Ready, B=Not Service Ready) : B											MDAP/MAIS Code:																				
Modification Item 1 of 2: Paratroop Door - DFT																															
Manufacturer Information																															
Manufacturer Name: Airdyne Aerospace											Manufacturer Location: Brooksville, FL																				
Administrative Leadtime (in Months): 0											Production Leadtime (in Months): 12																				
Dates		FY 2021				FY 2022				FY 2023				FY 2024		FY 2025		FY 2026		FY 2027											
Contract Dates						Mar 2024				Mar 2024		Mar 2025																			
Delivery Dates						Mar 2025				Mar 2025		Mar 2026																			
Installation Information																															
Method of Implementation: Depot Field Team																															
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)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																
Prior Years		- / -	- / -	- / -	8 / 0.576	- / -	8 / 0.576	- / -	- / -	- / -	- / -	- / -	8 / 0.576																		
FY 2021		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023		- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.504	7 / 0.000	- / -	- / -	- / -	7 / 0.504																		
FY 2024		- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.864	12 / 0.000	- / -	- / -	12 / 0.864																		
FY 2025		- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.072	1 / 0.000	- / -	- / -	1 / 0.072																		
FY 2026		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2027		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	8 / 0.576	- / -	8 / 0.576	0 / 0.504	7 / 0.936	13 / 0.000	- / -	- / -	28 / 2.016																		
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	0	-	-	-	-	-	-	-	-	-	5	3	-	-	-	-	-	-	4	3	-	2	4	4	3	-	-	-	-	0	28
Out	0	-	-	-	-	-	-	-	-	-	3	5	-	-	-	-	-	-	3	4	-	2	4	4	3	-	-	-	-	0	28

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 8658 / Paratroop Door	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 2 of 2: Paratroop Kits							
Manufacturer Information							
Manufacturer Name: Airdyne Aerospace				Manufacturer Location: Brooksville, FL			
Administrative Leadtime (in Months): 0				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): Org/Intermediate					Installation Quantity: 11		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8659 / Broadband Antenna

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.400	0.000	0.000	0.000	-	0.000	-	-	-	-	-	9.400
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.400	0.000	0.000	0.000	-	0.000	-	-	-	-	-	9.400
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.400	0.000	0.000	0.000	-	0.000	-	-	-	-	-	9.400

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Equips the MC-130J with an airborne satellite terminal that delivers over the horizon high-speed IP communications (Full motion video link).

Current funding includes but is not limited to aircraft kits, OFP (Operational Flight Program) builds, associated training, tech data, Readiness Spares Package (RSPs), aircraft verification/qualification, and other government costs required for installation on up to six (6) aircraft.

The remaining fleet will be outfitted under the Air-borne Mission Networking (AbMN) program.

Milestone/Development Status

Milestone: N/A

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8659 / Broadband Antenna
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Models of Systems Affected: MC-130J **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0207230F

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Group A Kits												
A Kits												
Recurring												
Group A Kits:INSTALL KITS Group A (Active)	4 / 9.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 9.400
<i>Subtotal: Recurring</i>	- / 9.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.400
<i>Subtotal: Group A Kits</i>	- / 9.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.400
<i>Subtotal: Procurement, All Modification Items</i>	- / 9.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.400
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	9.400	0.000	0.000	0.000	-	0.000	-	-	-	-	-	9.400

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 8659 / Broadband Antenna	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: Group A Kits							
Manufacturer Information							
Manufacturer Name: Sierra Nevada Corporation				Manufacturer Location: Sparks,NV			
Administrative Leadtime (in Months): 2				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): Org/Intermediate					Installation Quantity: 4		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8737 / HC-Communications Modernization Phase I

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	10.000	0.000	10.000	10.762	44.597	34.507	2.753	0.000	102.619
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	10.000	0.000	10.000	10.762	44.597	34.507	2.753	0.000	102.619
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	10.000	0.000	10.000	10.762	44.597	34.507	2.753	0.000	102.619

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 8737, HC-Communications Modernization Phase I, is a new start. HC Communications Modernization Phase 1 and Trainers

The USAF initiated the Communications Modernization program to comply with Mobile User Objective System (MUOS) and VINSON/ANDVT Cryptographic Modernization (VACM) mandates, and deliver those capabilities on the HC-130J aircraft. Funding includes, but is not limited to upgrading satellite (SATCOM) radios and cryptographic devices associated Group A provisions, spares, and associated training units for the HC-130J fleets. This funding request also includes, but is not limited to supporting any safety of flight issues identified during modification, training requirements, and associated publications to include, if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability. Related milestone dates and installation schedule dates are for installation on aircraft.

Per direction from SAF/AQ, HC/MC has been directed to follow the Re-engineered Supply Support Program (RSSP) policy direction dated 11 Feb 2000, to procure initial spares with program funding. The line in the funding table labeled "Mod of Spares" is the procurement of initial spares.

Actual Active/Reserve/Guard breakdown will be adjusted and installs will occur as aircraft become available.

Milestone/Development Status

Development began in FY 2020.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	10.000	-	10.000	10.762	44.597	34.507	2.753
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	10.000	0.000	10.000	10.762	44.597	34.507	2.753

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8737 / HC-Communications Modernization Phase I			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: COMMS Mod Phase 1</i>													
A Kits													
Recurring													
COMMS Mod Phase 1:INSTALL KITS Group A (Active)													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 2.099	20 / 2.390	- / -	- / -	38 / 4.489	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.099	- / 2.390	- / -	- / -	- / 4.489	
B Kits													
Recurring													
COMMS Mod Phase 1:EQUIPMENT Group B (Active)													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 7.002	20 / 7.935	- / -	- / -	38 / 14.937	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.002	- / 7.935	- / -	- / -	- / 14.937	
<i>Subtotal: COMMS Mod Phase 1</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.101	- / 10.325	- / -	- / -	- / 19.426	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.101	- / 10.325	- / -	- / -	- / 19.426	
Support (All Modification Items)													
SIM/TRAINER	- / -	- / -	- / -	- / 2.730	- / -	- / 2.730	- / 0.075	- / 18.705	- / 6.843	- / -	- / -	- / 28.353	
ICS-Material	- / -	- / -	- / -	- / 0.875	- / -	- / 0.875	- / 0.094	- / 0.525	- / 0.631	- / -	- / -	- / 2.125	
Mod of Spares	- / -	- / -	- / -	- / 0.850	- / -	- / 0.850	- / 0.116	- / 3.624	- / 3.775	- / -	- / -	- / 8.365	
OTHER GOVT	- / -	- / -	- / -	- / 1.500	- / -	- / 1.500	- / 5.095	- / 5.173	- / 5.201	- / -	- / -	- / 16.969	
SUPPORT-EQUIP	- / -	- / -	- / -	- / 0.775	- / -	- / 0.775	- / 0.110	- / 0.200	- / 0.328	- / -	- / -	- / 1.413	
Type 1 Training	- / -	- / -	- / -	- / 0.995	- / -	- / 0.995	- / 0.105	- / 0.527	- / 0.623	- / -	- / -	- / 2.250	
Change Orders	- / -	- / -	- / -	- / 1.775	- / -	- / 1.775	- / 0.062	- / 1.565	- / 1.572	- / -	- / -	- / 4.974	
PSC - Other Gov't Costs	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 5.105	- / 5.177	- / 5.209	- / -	- / -	- / 15.991	
<i>Subtotal: Support</i>													
	- / -	- / -	- / -	- / 10.000	- / -	- / 10.000	- / 10.762	- / 35.496	- / 24.182	- / -	- / -	- / 80.440	
Installation													
<i>Modification Item 1 of 1: COMMS Mod Phase 1</i>													
<i>Subtotal: Installation</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 2.753	20 / 0.000	38 / 2.753	
Total													
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	10.000	0.000	10.000	10.762	44.597	34.507	2.753	0.000	102.619	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8737 / HC-Communications Modernization Phase I

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: COMMS Mod Phase 1

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Marietta
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 18

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 2.753	18 / 2.753
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.000	20 / 0.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 2.753	38 / 2.753

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	5	5	20	38
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	5	5	22	38

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8738 / HC-Communications Modernization Phase II

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	0.000	0.000	0.000	3.540	18.292	0.000	0.000	21.832
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	0.000	0.000	0.000	3.540	18.292	0.000	0.000	21.832
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	0.000	0.000	0.000	3.540	18.292	0.000	0.000	21.832

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

HC Communications Modernization Phase II

The USAF initiated the Communications Modernization program to deliver Second-generation Anti-jam Tactical UHF Radio for NATO (SATURN), Single Channel Ground and Airborne Radio System (SINCGARS), and HF Modernization capabilities to resolve DMS issues on the HC-130J aircraft. Funding includes, but is not limited to upgrading Ultra High Frequency (UHF), Very High Frequency (VHF), and High Frequency (HF) radios associated Group A provisions, spares, and associated training units for the HC-130J fleets. This funding request also includes, but is not limited to supporting any safety of flight issues identified during modification, OFP builds, training requirements, associated publications, and potential DMS to include, if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability. Related milestone dates and installation schedule dates are for installation on aircraft.

Per direction from SAF/AQ, HC/MC has been directed to follow the Re-engineered Supply Support Program (RSSP) policy direction dated 11 Feb 2000, to procure initial spares with program funding. The line in the funding table labeled "Mod of Spares" is the procurement of initial spares.

Milestone/Development Status

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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	3.540	18.292	0.000
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	0.000	3.540	18.292	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8738 / HC-Communications Modernization Phase II			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: COMMs Mod Phase 2</i>													
A Kits													
Recurring													
COMMs Mod Phase 2:INSTALL KITS Group A (Active)													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.343	2 / 0.702	- / -	- / -	3 / 1.045	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.343	- / 0.702	- / -	- / -	- / 1.045	
B Kits													
Recurring													
COMMs Mod Phase 2:EQUIPMENT Group B (Active)													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.869	2 / 3.831	- / -	- / -	3 / 5.700	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.869	- / 3.831	- / -	- / -	- / 5.700	
<i>Subtotal: COMMs Mod Phase 2</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.212	- / 4.533	- / -	- / -	- / 6.745	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.212	- / 4.533	- / -	- / -	- / 6.745	
Support (All Modification Items)													
OTHER GOVT													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.305	- / 0.317	- / -	- / -	- / 0.622	
ICS-Labor													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.113	- / 0.194	- / -	- / -	- / 0.307	
Type 1 Training													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.143	- / 0.150	- / -	- / -	- / 0.293	
Change Orders													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.167	- / 0.245	- / -	- / -	- / 0.412	
Mod of Spares													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.144	- / 2.212	- / -	- / -	- / 2.356	
Data													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.015	- / 0.015	- / -	- / -	- / 0.030	
SIM/TRAINER													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.126	- / 2.312	- / -	- / -	- / 2.438	
PSC - Other Gov't Costs													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.315	- / 0.325	- / -	- / -	- / 0.640	
<i>Subtotal: Support</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.328	- / 5.770	- / -	- / -	- / 7.098	
Installation													
<i>Modification Item 1 of 1: COMMs Mod Phase 2</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 7.989	1 / 0.000	2 / 0.000	3 / 7.989	
<i>Subtotal: Installation</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.989	1 / 0.000	2 / 0.000	3 / 7.989	
Total													
Total Cost (Procurement + Support + Installation)													
	-	0.000	0.000	0.000	0.000	0.000	0.000	3.540	18.292	0.000	0.000	21.832	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8738 / HC-Communications Modernization Phase II

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: COMMs Mod Phase 2

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Marietta
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 18

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates					Apr 2025	Dec 2026	
Delivery Dates					Oct 2026	Jun 2028	

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 2.663	1 / 0.000	- / -	1 / 2.663
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 5.326	- / -	2 / 0.000	2 / 5.326
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 7.989	1 / 0.000	2 / 0.000	3 / 7.989

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	3
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	3

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8760 / HC Trainer Modifications

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	20.000	0.000	20.000	9.100	0.000	0.000	0.000	0.000	29.100
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	20.000	0.000	20.000	9.100	0.000	0.000	0.000	0.000	29.100
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	20.000	0.000	20.000	9.100	0.000	0.000	0.000	0.000	29.100

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 8760, HC Trainer Modifications, is a new start.

This effort includes the existing HC-130J Weapon System Trainer (WST) training/simulation systems to include modifications made to the aircraft to keep the trainer configuration in sync with the aircraft. This allows comprehensive training for aircrews and maintenance crews.

This includes, but is not limited to Live Virtual Construct (LVC) and HC-130J Concurrency Modifications. LVC allows trainers to interact not only with other trainers but with real aircraft performing missions. HC-130J Concurrency Modification will update HC-130J training/simulation systems, include but are not limited to, Field of View, Projectors / Image Generators, Modern Air Combat Environment (MACE), Distributed Mission Operations (DMO), and Large Aircraft Infra-Red Countermeasures (LAIRCM) capabilities as well as future HC-130J modifications to ensure concurrency between training device and aircraft capabilities. This includes Virtual Reality (VR) and Augmented Reality (AR).

Additional modifications programs, such as, but not limited to Communication Modernization Phase I, Defensive Systems Suite (DSS), Combat System Operator 2.5 (CSO 2.5), BLOCK 7.0/8.1 will provide their unique upgrades to the training devices.

This funding will support potential Diminishing Manufacturing Source (DMS) and obsolescence solutions to include, if optimal, and not limited to life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability.

Training systems to be modified include, but not limited to flight simulators and fuselage trainers to enable simultaneous full aircrew training.

Trainer kits and installs are not proposed separately and are included in the kit cost.

Milestone/Development Status

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
AF Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8760 / HC Trainer Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Total Obligation Authority	-	-	20.000	-	20.000	9.100	0.000	-	-
Total:	-	-	-	-	-	-	-	-	-
Secondary Distribution	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	20.000	0.000	20.000	9.100	0.000	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8760 / HC Trainer Modifications			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Trainer</i>													
B Kits													
Recurring													
Trainer:EQUIPMENT Group B (Active)	- / -	- / -	- / -	2 / 19.900	- / -	2 / 19.900	1 / 9.000	- / -	- / -	- / -	- / -	3 / 28.900	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 19.900	- / -	- / 19.900	- / 9.000	- / -	- / -	- / -	- / -	- / 28.900	
<i>Subtotal: Trainer</i>	- / -	- / -	- / -	- / 19.900	- / -	- / 19.900	- / 9.000	- / -	- / -	- / -	- / -	- / 28.900	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 19.900	- / -	- / 19.900	- / 9.000	- / -	- / -	- / -	- / -	- / 28.900	
Support (All Modification Items)													
PSC - Other Gov't Costs	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / 0.100	- / -	- / -	- / -	- / -	- / 0.200	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / 0.100	- / -	- / -	- / -	- / -	- / 0.200	
Installation													
<i>Modification Item 1 of 1: Trainer</i>													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	2 / 0.000	- / -	- / -	- / -	3 / 0.000	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	20.000	0.000	20.000	9.100	0.000	0.000	0.000	0.000	29.100	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8760 / HC Trainer Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Trainer

Manufacturer Information

Manufacturer Name: Lockheed Martin RMS Manufacturer Location: Orlando, FL

Administrative Leadtime (in Months): 0 Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	1 / 0.000	- / -	- / -	- / -	2 / 0.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	- / -	- / -	- / -	1 / 0.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	2 / 0.000	- / -	- / -	- / -	3 / 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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	0	3
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	-	-	0	3

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8761 / MC/AC-Communications Modernization Phase I

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	2.437	20.638	0.000	20.638	0.163	0.545	0.401	0.467	0.000	24.651
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	2.437	20.638	0.000	20.638	0.163	0.545	0.401	0.467	0.000	24.651
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	2.437	20.638	0.000	20.638	0.163	0.545	0.401	0.467	0.000	24.651

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

In FY 2022, the MC/AC Communications Modernization Phase I Program (Comms Mod) was called Mobile User Objective System (MUOS).

The USAF initiated the Communications Modernization program to comply with Mobile User Objective System (MUOS) and VINSON/ANDVT Cryptographic Modernization (VACM) mandates, and deliver those capabilities on the HC-130J aircraft. Funding includes, but is not limited to upgrading satellite (SATCOM) radios and cryptographic devices associated Group A provisions, spares, and associated training units for the HC-130J fleets. This funding request also includes, but is not limited to supporting any safety of flight issues identified during modification, training requirements, and associated publications to include, if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability. Related milestone dates and installation schedule dates are for installation on aircraft.

VACM funding is to procure what is needed to field the VACM capability. This funding includes, but is not limited to support equipment.

Kit quantities purchased per year will be determined by available funding and will be buy to budget.

Per direction from SAF/AQ, HC/MC has been directed to follow the Re-engineered Supply Support Program (RSSP) policy direction dated 11 Feb 2000, to procure initial spares with program funding. The line in the funding table labeled "Mod of Spares" is the procurement of initial spares.

Milestone/Development Status

Development began in FY 2020

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	2.437	20.638	-	20.638	0.163	0.545	0.401	0.467
Total:									
Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8761 / MC/AC-Communications Modernization Phase I

ID Code (A=Service Ready, B=Not Service Ready) : B **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
Secondary Distribution	Total Obligation Authority	0.000	2.437	20.638	0.000	20.638	0.163	0.545	0.401	0.467

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications							Modification Number / Title: 8761 / MC/AC-Communications Modernization Phase I			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:							
Models of Systems Affected: MCAC-130J				Modification Type: Capability Improvement				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1: Comm Mod</i>														
A Kits														
Recurring														
Comm Mod:INSTALL KITS Group A (Active)	- / -	- / -	- / -	14 / 1.484	- / -	14 / 1.484	- / -	- / -	- / -	- / -	- / -	14 / 1.484		
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 1.484	- / -	- / 1.484	- / -	- / -	- / -	- / -	- / -	- / 1.484		
B Kits														
Recurring														
Comm Mod:EQUIPMENT Group B (Active)	- / -	- / -	- / -	14 / 5.186	- / -	14 / 5.186	- / -	- / -	- / -	- / -	- / -	14 / 5.186		
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 5.186	- / -	- / 5.186	- / -	- / -	- / -	- / -	- / -	- / 5.186		
<i>Subtotal: Comm Mod</i>	- / -	- / -	- / -	- / 6.670	- / -	- / 6.670	- / -	- / -	- / -	- / -	- / -	- / 6.670		
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 6.670	- / -	- / 6.670	- / -	- / -	- / -	- / -	- / -	- / 6.670		
Support (All Modification Items)														
Change Orders	- / -	- / -	- / 0.196	- / 0.408	- / -	- / 0.408	- / 0.017	- / 0.107	- / 0.018	- / 0.016	- / -	- / 0.762		
SUPPORT-EQUIP	- / -	- / -	- / 0.565	- / 0.547	- / -	- / 0.547	- / 0.015	- / 0.081	- / 0.007	- / 0.011	- / -	- / 1.226		
OTHER GOVT	- / -	- / -	- / 0.513	- / 1.052	- / -	- / 1.052	- / 0.033	- / 0.143	- / 0.019	- / 0.105	- / -	- / 1.865		
SIM/TRAINER	- / -	- / -	- / -	- / 0.075	- / -	- / 0.075	- / 0.015	- / 0.017	3 / 0.301	- / 0.201	- / -	3 / 0.609		
PSC - Contractor Services	- / -	- / -	- / 0.337	- / 1.347	- / -	- / 1.347	- / 0.031	- / 0.145	- / 0.015	- / 0.097	- / -	- / 1.972		
Mod of Spares	- / -	- / -	- / 0.476	- / 0.628	- / -	- / 0.628	- / 0.022	- / 0.021	- / 0.013	- / 0.011	- / -	- / 1.171		
Type 1 Training	- / -	- / -	- / -	- / 0.381	- / -	- / 0.381	- / 0.016	- / 0.015	- / 0.017	- / 0.019	- / -	- / 0.448		
ICS-Material	- / -	- / -	- / 0.350	- / 0.359	- / -	- / 0.359	- / 0.014	- / 0.016	- / 0.011	- / 0.007	- / -	- / 0.757		
<i>Subtotal: Support</i>	- / -	- / -	- / 2.437	- / 4.797	- / -	- / 4.797	- / 0.163	- / 0.545	3 / 0.401	- / 0.467	- / -	3 / 8.810		
Installation														
<i>Modification Item 1 of 1: Comm Mod</i>														
<i>Subtotal: Installation</i>	- / -	- / -	- / -	0 / 9.171	- / -	0 / 9.171	- / -	14 / 0.000	- / -	- / -	- / -	14 / 9.171		
Total														
Total Cost (Procurement + Support + Installation)	0.000	0.000	2.437	20.638	0.000	20.638	0.163	0.545	0.401	0.467	0.000	24.651		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8761 / MC/AC-Communications Modernization Phase I

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: Comm Mod

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 18

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 9.171	- / -	0 / 9.171	- / -	14 / 0.000	- / -	- / -	- / -	14 / 9.171
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	0 / 9.171	- / -	0 / 9.171	- / -	14 / 0.000	- / -	- / -	- / -	14 / 9.171

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	4	4	-	-	-	-	-	-	-	-	0	14
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	2	-	-	-	-	-	-	-	0	14

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8762 / MC-130J Link 16

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	4.420	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	4.420
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	4.420	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	4.420
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	4.420	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	4.420

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Link 16 is a critical part of the Air Force Special Operations Command Airborne Mission Networking (AbMN) Concept of Operations. It provides critical situational awareness to MC-130J aircrews operating in contested airspace while providing aircraft position information to friendly aircraft, including Combat Air Forces and Suppression of Enemy Air Defense support aircraft. This modification equips the MC-130J with the hardware necessary to satisfy the Link-16 portion of the USAF Airborne Networking mandate as well as AFSOC's communication tactical datalink capability requirements as stated in the USSOCOM AbMN Capabilities Development Document, dated 6 January 2016. The hardware will be temporarily integrated in the MC-130J aircraft to provide a Line of Site datalink until USSOCOM's permanent AbMN modification is completed.

This funding will support potentially Diminishing Manufacturing Sources (DMS) and obsolescence solutions to include, if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, kits, training, spares, support equipment, deployment packages and Program costs needed to field the capability.

Per direction from SAF/AQ, HC/MC has been directed to follow the Re-engineered Supply Support Program (RSSP) policy direction dated 11 Feb 2000, to procure initial spares with program funding. The line in the funding table labeled "Mod of Spares" is the procurement of initial spares.

Requirement is 13 MC-130J aircraft.

Milestone/Development Status

Milestone Development Status: 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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.420	0.000	0.000	-	0.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8762 / MC-130J Link 16			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: MC-130J				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> MC Link 16 B Kit													
B Kits													
Recurring													
MC Link 16 B Kit:EQUIPMENT Group B (Active)	- / -	13 / 2.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 2.002	
<i>Subtotal: Recurring</i>	- / -	- / 2.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.002	
<i>Subtotal: MC Link 16 B Kit</i>	- / -	- / 2.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.002	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 2.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.002	
Support (All Modification Items)													
ICS-Labor	- / -	- / 0.768	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.768	
OTHER GOVT	- / -	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.025	
ICS-Material	- / -	- / 0.769	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.769	
Mod of Spares	- / -	- / 0.423	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.423	
SUPPORT-EQUIP	- / -	- / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.150	
<i>Subtotal: Support</i>	- / -	- / 2.135	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.135	
Installation													
<i>Modification Item 1 of 1:</i> MC Link 16 B Kit	- / -	0 / 0.283	8 / 0.000	5 / 0.000	- / -	5 / 0.000	- / -	- / -	- / -	- / -	- / -	13 / 0.283	
<i>Subtotal: Installation</i>	- / -	- / 0.283	8 / 0.000	5 / -	- / -	5 / -	- / -	- / -	- / -	- / -	- / -	13 / 0.283	
Total													
Total Cost (Procurement + Support + Installation)	0.000	4.420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	4.420	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8762 / MC-130J Link 16
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: MC Link 16 B Kit

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD

Administrative Leadtime (in Months): 8 Production Leadtime (in Months): 8

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	0 / 0.283	8 / 0.000	5 / 0.000	- / -	5 / 0.000	- / -	- / -	- / -	- / -	- / -	13 / 0.283
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	0 / 0.283	8 / 0.000	5 / 0.000	- / -	5 / 0.000	- / -	- / -	- / -	- / -	- / -	13 / 0.283

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	0	-	-	-	-	-	3	3	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	13	
Out	0	-	-	-	-	-	3	3	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	13		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8763 / HC-130J Link 16

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	1.700	5.300	0.000	0.000	7.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	1.700	5.300	0.000	0.000	7.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	1.700	5.300	0.000	0.000	7.000

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Link-16 is a critical Air Combat Command Personnel Recovery Concept of Operations. It provides the exchange of situational awareness information to and from Rescue forces over a common network that is continuously and automatically updated. In doing so, the HC-130J will be able to provide aircraft position and identification data to the CAF Link-16 tactical picture to mitigate fratricide, enable the display of CAF Link-16 tactical picture (friendly, hostile, and neutral tracks) for threat avoidance, and provide increased overall situational awareness to AF PR forces and Rescue support forces.

To ensure modernization and continued supportability the hardware will be integrated into the HC-130J 8.1 baseline via the Block Upgrade 3 (BU3) to provide Integrated Link 16 Capabilities, at a rate of 6 aircraft per year starting in FY 2026 outfitting the HC-130J fleet of 39 aircraft.

This funding will support potentially Diminishing Manufacturing Sources (DMS) and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability.

Per direction from SAF/AQ, HC/MC has been directed to follow the Re-engineered Supply Support Program (RSSP) policy direction dated 11 Feb 2000, to procure initial spares with program funding. The line in the funding table labeled "Mod of Spares" is the procurement of initial spares.

Milestone/Development Status

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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	1.700	5.300	0.000
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	1.700	5.300	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8763 / HC-130J Link 16			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> HC Link 16 Kit													
B Kits													
Recurring													
HC Link 16 Kit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.440	6 / 1.440	- / -	- / -	12 / 2.880	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.440	- / 1.440	- / -	- / -	- / 2.880	
<i>Subtotal: HC Link 16 Kit</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.440	- / 1.440	- / -	- / -	- / 2.880	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.440	- / 1.440	- / -	- / -	- / 2.880	
Support (All Modification Items)													
Data	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.020	- / 0.020	- / -	- / -	- / 0.040	
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.015	- / 0.150	- / -	- / -	- / 0.165	
Change Orders	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.012	- / 0.024	- / -	- / -	- / 0.036	
Mod of Spares	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.090	4 / 0.960	- / -	- / -	4 / 1.050	
PSC - Other Gov't Costs	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	- / 0.166	- / -	- / -	- / 0.266	
SUPPORT-EQUIP	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.012	- / 0.020	- / -	- / -	- / 0.032	
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / 0.100	- / -	- / -	- / 0.101	
ICS-Labor	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.010	- / 0.020	- / -	- / -	- / 0.030	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.260	4 / 1.460	- / -	- / -	4 / 1.720	
Installation													
<i>Modification Item 1 of 1:</i> HC Link 16 Kit													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.400	6 / 0.000	- / -	12 / 2.400	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	-	-	-	-	1.700	5.300	0.000	0.000	7.000	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8763 / HC-130J Link 16
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: HC Link 16 Kit

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD

Administrative Leadtime (in Months): 0 Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.400	- / -	- / -	6 / 2.400
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.000	- / -	6 / 0.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.400	6 / 0.000	- / -	12 / 2.400

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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	-	0	12
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	0	12

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8764 / MC-Trainer Modifications

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	83.617	12.332	0.000	12.332	12.569	28.959	29.507	30.106	0.000	197.090
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	83.617	12.332	0.000	12.332	12.569	28.959	29.507	30.106	0.000	197.090
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	83.617	12.332	0.000	12.332	12.569	28.959	29.507	30.106	0.000	197.090

(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 Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This effort updates the existing AC/MC-130J training/simulation systems to include modifications made to the aircraft to keep the trainer configuration in sync with the aircraft. This allows comprehensive training for aircrews and maintenance crews.

This includes, but is not limited to Live Virtual Construct (LVC) and MC Concurrency Modifications. LVC allows trainers to interact not only with other trainers but with real aircraft performing missions. MC Concurrency Modifications will update MC training/simulation systems, include but are not limited to, Continuous Improvement Program (CIP), Option X, Large Aircraft Infra-Red Countermeasures (LAIRCM), and Automatic Dependent Surveillance-Broadcast Out (ADS-B out) capabilities. CIP, Option X, LAIRCM and ADS-B out comprise the "COLA" capabilities modification for trainers. CIP and future AC/MC modifications to ensure concurrency between training device and aircraft capabilities. Includes Virtual Reality (VR) and Augmented Reality (AR).

This funding will support potentially Diminishing Manufacturing Sources (DMS) and obsolescence solutions to include, if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability.

This Modification also includes the upgrade/re-purpose of the AC-130W Weapon System Trainer (WST) to an MC-130J configuration.

Training systems to be modified include, but not limited to flight simulators and fuselage trainers to enable simultaneous full aircrew training.

The FY 2022 funding levels are elevated due to a Zero Balanced Transfer (ZBT) from Budget Program (BP) 10 to BP11 in FY 2022 to cover critical WST updates, such as, Concurrency Mods and the AC-130W WST conversion. Currently, FY 2023 funding and beyond is the required levels to maintain LVC capabilities.

The installation cost are not separately priced for the trainer upgrades. This cost is captured in the kit line. Also, kit cost vary based upon the configuration of the trainer being upgraded.

Milestone/Development Status

Complete

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8764 / MC-Trainer Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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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
Total Obligation Authority	-	83.617	12.332	-	12.332	12.569	28.959	29.507	30.106
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.000	83.617	12.332	0.000	12.332	12.569	28.959	29.507	30.106

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications				Modification Number / Title: 8764 / MC-Trainer Modifications					
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: MC-130J				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 2: LVC</i>													
B Kits													
Recurring													
LVC:EQUIPMENT Group B (Active)	- / -	- / -	2 / 35.917	2 / 12.322	- / -	2 / 12.322	1 / 12.559	1 / 28.949	1 / 29.497	1 / 30.096	- / -	8 / 149.340	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 35.917	- / 12.322	- / -	- / 12.322	- / 12.559	- / 28.949	- / 29.497	- / 30.096	- / -	- / 149.340	
<i>Subtotal: LVC</i>	- / -	- / -	- / 35.917	- / 12.322	- / -	- / 12.322	- / 12.559	- / 28.949	- / 29.497	- / 30.096	- / -	- / 149.340	
<i>Modification Item 2 of 2: Trainer - COLA</i>													
B Kits													
Recurring													
Trainer - COLA:EQUIPMENT Group B (Active)	- / -	- / -	12 / 47.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 47.700	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 47.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 47.700	
<i>Subtotal: Trainer - COLA</i>	- / -	- / -	- / 47.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 47.700	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 83.617	- / 12.322	- / -	- / 12.322	- / 12.559	- / 28.949	- / 29.497	- / 30.096	- / -	- / 197.040	
Support (All Modification Items)													
PSC - Contractor Services	- / -	- / -	- / -	- / 10.004	- / -	- / 10.004	- / 10.005	- / 10.006	- / 10.005	- / 10.004	- / -	- / 10.024	
Mod of Spares	- / -	- / -	- / -	- / 10.006	- / -	- / 10.006	- / 10.005	- / 10.004	- / 10.005	- / 10.006	- / -	- / 10.026	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 10.010	- / -	- / 10.010	- / 10.010	- / 10.010	- / 10.010	- / 10.010	- / -	- / 10.050	
Installation													
<i>Modification Item 1 of 2: LVC</i>													
<i>Modification Item 2 of 2: Trainer - COLA</i>	- / -	- / -	- / -	3 / 10.000	- / -	3 / 10.000	8 / 10.000	1 / 10.000	- / -	- / -	- / -	12 / 10.000	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	3 / 10.000	- / -	3 / 10.000	8 / 10.000	5 / 10.000	1 / 10.000	1 / 10.000	2 / 10.000	20 / 10.000	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	83.617	12.332	0.000	12.332	12.569	28.959	29.507	30.106	0.000	197.090	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8764 / MC-Trainer Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 2: LVC

Manufacturer Information

Manufacturer Name: Lockheed Martin RMS	Manufacturer Location: Orlando, FL
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Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 22
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Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		May 2022	Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027
Delivery Dates		Mar 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028	Jan 2029

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000	- / -	- / -	- / -	2 / 0.000
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000	- / -	- / -	- / -	2 / 0.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	- / -	- / -	1 / 0.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	- / -	1 / 0.000
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	1 / 0.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	1 / 0.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.000	1 / 0.000	1 / 0.000	2 / 0.000	8 / 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	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	-	-	1	-	-	-	1	-	-	2	8
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	1	-	1	-	-	3	8	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8764 / MC-Trainer Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 2 of 2: Trainer - COLA

Manufacturer Information

Manufacturer Name: Lockheed Martin RMS Manufacturer Location: Orlando, FL

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 4

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	3 / 0.000	- / -	3 / 0.000	8 / 0.000	1 / 0.000	- / -	- / -	- / -	12 / 0.000
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	3 / 0.000	- / -	3 / 0.000	8 / 0.000	1 / 0.000	- / -	- / -	- / -	12 / 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	0	-	-	-	-	-	-	-	-	-	-	1	2	2	2	2	1	-	-	-	-	-	-	-	-	-	-	0	12	
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	2	2	2	1	-	-	-	-	-	-	-	0	12	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8767 / HC-Star XIII

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	29.600	47.499	56.160	0.000	0.000	133.259
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	-	-	-	29.600	47.499	56.160	0.000	0.000	133.259
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	-	-	-	29.600	47.499	56.160	0.000	0.000	133.259

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

STAR XIII funding will support the incremental production and installation of Group B kits for the HC-130J fleet. Production costs will encompass STAR XIII mission computer and software kit buys and installation, and the production and fielding of technical manual/order updates, training materials updates, and spares. Since the STAR XIII mission computer is programmed as a form/fit/function replacement to its STAR IX predecessor, Group A requirements are not anticipated. Installation will occur via blue-suit personnel.

The HC-130J production costs will mitigate projected HC-130J Mission Incapable Awaiting Parts (MICAP) issues beginning in 2QFY27. Based on Government and Contractor supply analysis, the STAR IX mission computer will be in a Diminishing Manufacturing Source (DMS) state for production, and serviceable spares will have been exhausted. The current HC-130J aircraft configuration employs two (2) STAR IX mission computers to be fully mission capable. If one of the STAR IX mission computers is MICAP and a replacement is not available, the aircraft is grounded for the duration of the STAR IX repair/return cycle. Since the mission computers are not interoperable, STAR IX and XIII variants cannot be mixed to return an aircraft to a fully mission capable status.

Since the HC-130J has multiple mission computer software baselines that will continue to evolve through multiple modification programs, incremental kit buys and installations will be required to support STAR XIII mission computer interoperability and avoid MICAPs.

This funding will support potentially DMS and obsolescence solutions to include, if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability.

Per direction from SAF/AQ, HC/MC has been directed to follow the Re-engineered Supply Support Program (RSSP) policy direction dated 11 Feb 2000, to procure initial spares with program funding. The line in the funding table labeled "Mod of Spares" is the procurement of initial spares.

Milestone/Development Status

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
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	-	-	-	29.600	47.499	56.160	-
Total:	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 8767 / HC-Star XIII				
ID Code (A=Service Ready, B=Not Service Ready) : B					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
Secondary Distribution	Total Obligation Authority	-	-	-	-	-	29.600	47.499	56.160	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8767 / HC-Star XIII			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: HC-130J				Modification Type: Reliability & Maintainability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Star XIII-Mission Computers													
B Kits													
Recurring													
Star XIII-Mission Computers:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	6 / 22.800	11 / 41.800	21 / 52.410	- / -	- / -	38 / 117.010	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.800	- / 41.800	- / 52.410	- / -	- / -	- / 117.010	
<i>Subtotal: Star XIII-Mission Computers</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.800	- / 41.800	- / 52.410	- / -	- / -	- / 117.010	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.800	- / 41.800	- / 52.410	- / -	- / -	- / 117.010	
Support (All Modification Items)													
Type 1 Training	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.650	- / 0.010	- / 0.079	- / -	- / -	- / 0.739	
ICS-Material	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.101	- / 0.029	- / 0.001	- / -	- / -	- / 0.131	
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.120	- / 0.900	- / 0.472	- / -	- / -	- / 2.492	
PSC - Other Gov't Costs	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.119	- / 0.950	- / 0.571	- / -	- / -	- / 2.640	
Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.010	- / 0.010	- / 0.007	- / -	- / -	- / 0.027	
Mod of Spares	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.800	2 / 3.800	2 / 2.620	- / -	- / -	6 / 10.220	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / -	- / -	- / -	2 / 6.800	2 / 5.699	2 / 3.750	- / -	- / -	6 / 16.249	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	-	-	-	29.600	47.499	56.160	0.000	0.000	133.259	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 8767 / HC-Star XIII	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: Star XIII-Mission Computers							
Manufacturer Information							
Manufacturer Name: Lockheed				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 18			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates				Jan 2024	Jan 2025	Jan 2026	
Delivery Dates				Jul 2025	Jul 2026	Jul 2027	
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 38		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8768 / HC-EO/IR Sensor Modification

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	11.500	0.000	0.000	0.000	-	11.500
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	-	-	-	11.500	0.000	0.000	0.000	-	11.500
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	-	-	-	11.500	0.000	0.000	0.000	-	11.500

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This effort will use the hardware solutions developed under the current Multi-Spectral Targeting System-A (MTS-A) (AN/AAS-54) sustaining engineering contract to replace the system's obsolete parts. The replacement of the MTS-A's obsolete parts will address its near/medium term DMSMS issues and extend its service life by at least another 5-8 years.

This funding will support potentially Diminishing Manufacturing Sources (DMS) and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability.

System upgrade labor will be contractor and the systems will be removed and replaced by AF maintenance personnel at the unit.

Milestone/Development Status

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
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	7.685	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	2.543	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	1.272	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	11.500	0.000	0.000	0.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8768 / HC-EO/IR Sensor Modification			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: HC-130J				Modification Type: Service Life Extension				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> EO/IR Upgrade													
B Kits													
Recurring													
EO/IR Upgrade:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	21 / 4.451	- / -	- / -	- / -	- / -	21 / 4.451	
EO/IR Upgrade:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.543	- / -	- / -	- / -	- / -	12 / 2.543	
EO/IR Upgrade:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.272	- / -	- / -	- / -	- / -	6 / 1.272	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.266	- / -	- / -	- / -	- / -	- / 8.266	
<i>Subtotal: EO/IR Upgrade</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.266	- / -	- / -	- / -	- / -	- / 8.266	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.266	- / -	- / -	- / -	- / -	- / 8.266	
Support (All Modification Items)													
PSC - Other Gov't Costs	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.005	- / -	- / -	- / -	- / -	- / 0.005	
ICS-Labor	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.469	- / -	- / -	- / -	- / -	- / 2.469	
Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.757	- / -	- / -	- / -	- / -	- / 0.757	
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.003	- / -	- / -	- / -	- / -	- / 0.003	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.234	- / -	- / -	- / -	- / -	- / 3.234	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	-	-	-	11.500	0.000	0.000	0.000	-	11.500	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 8768 / HC-EO/IR Sensor Modification	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: EO/IR Upgrade							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: FL			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates				Jun 2024			
Delivery Dates				Jun 2025			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 39		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 1 / HC- Low Cost Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8.503	3.387	0.072	0.904	0.000	0.904	1.756	5.000	5.000	0.000	0.000	24.622
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	8.503	3.387	0.072	0.904	0.000	0.904	1.756	5.000	5.000	0.000	0.000	24.622
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8.503	3.387	0.072	0.904	0.000	0.904	1.756	5.000	5.000	0.000	0.000	24.622

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

HC Low Cost Modifications encompass, but are not limited to efforts necessary to improve reliability, maintainability, safety, and mission performance, to reduce logistics costs, and to implement fleet upgrades and enhancements to meet emerging requirements for the HC-130J aircraft and associated training systems.

This funding will support potentially Diminishing Manufacturing Sources (DMS) and obsolescence solutions to include, if optimal, life of type buys or bridge buys limited to the program of record quantity. Program funding includes, but is not limited to purchase of Government Furnished Equipment, Trainers, Pub/Tech Data, Interim Contractor Support, Data, and Program costs needed to field the capability. HC Low Cost Modifications may include installation costs depending upon the modification.

Milestone/Development Status

NA

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.387	0.072	0.904	-	0.904	1.756	5.000	5.000
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.387	0.072	0.904	0.000	0.904	1.756	5.000	5.000

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 1 / HC- Low Cost Modifications			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: HC-130J				Modification Type: Safety				Related RDT&E PEs: 0207224F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 2: COMMON: Low Cost Mod Kit</i>													
B Kits													
Recurring													
COMMON: Low Cost Mod Kit:EQUIPMENT Group B (Active)	- / 0.205	- / 1.689	- / 0.004	- / 0.633	- / -	- / 0.633	- / 0.564	- / 2.594	- / 2.650	- / -	- / -	- / 8.339	
<i>Subtotal: Recurring</i>	- / 0.205	- / 1.689	- / 0.004	- / 0.633	- / -	- / 0.633	- / 0.564	- / 2.594	- / 2.650	- / -	- / -	- / 8.339	
<i>Subtotal: COMMON: Low Cost Mod Kit</i>	- / 0.205	- / 1.689	- / 0.004	- / 0.633	- / -	- / 0.633	- / 0.564	- / 2.594	- / 2.650	- / -	- / -	- / 8.339	
<i>Modification Item 2 of 2: HC Low Cost Mod Kits</i>													
A Kits													
Recurring													
HC Low Cost Mod Kits:INSTALL KITS Group A (Active)	- / 0.100	- / 1.627	- / 0.002	- / 0.163	- / -	- / 0.163	- / 0.180	- / 1.303	- / 1.307	- / -	- / -	- / 4.682	
<i>Subtotal: Recurring</i>	- / 0.100	- / 1.627	- / 0.002	- / 0.163	- / -	- / 0.163	- / 0.180	- / 1.303	- / 1.307	- / -	- / -	- / 4.682	
<i>Subtotal: HC Low Cost Mod Kits</i>	- / 0.100	- / 1.627	- / 0.002	- / 0.163	- / -	- / 0.163	- / 0.180	- / 1.303	- / 1.307	- / -	- / -	- / 4.682	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.305	- / 3.316	- / 0.006	- / 0.796	- / -	- / 0.796	- / 0.744	- / 3.897	- / 3.957	- / -	- / -	- / 13.021	
Support (All Modification Items)													
PSC - Contractor Services	- / -	- / -	- / -	- / 0.035	- / -	- / 0.035	- / 0.400	- / 0.405	- / 0.409	- / -	- / -	- / 1.249	
Change Orders	- / -	- / 0.021	- / 0.004	- / 0.013	- / -	- / 0.013	- / 0.050	- / 0.055	- / 0.056	- / -	- / -	- / 0.199	
Data	- / -	- / 0.010	- / 0.015	- / 0.010	- / -	- / 0.010	- / 0.015	- / 0.025	- / 0.025	- / -	- / -	- / 0.100	
SIM/TRAINER	- / 0.010	- / 0.010	- / 0.016	- / 0.018	- / -	- / 0.018	- / 0.387	- / 0.418	- / 0.408	- / -	- / -	- / 1.267	
SUPPORT-EQUIP	- / 0.025	- / 0.015	- / 0.015	- / 0.015	- / -	- / 0.015	- / 0.145	- / 0.165	- / 0.125	- / -	- / -	- / 0.505	
OTHER GOVT	- / 8.163	- / 0.015	- / 0.016	- / 0.017	- / -	- / 0.017	- / 0.015	- / 0.035	- / 0.020	- / -	- / -	- / 8.281	
<i>Subtotal: Support</i>	- / 8.198	- / 0.071	- / 0.066	- / 0.108	- / -	- / 0.108	- / 1.012	- / 1.103	- / 1.043	- / -	- / -	- / 11.601	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	8.503	3.387	0.072	0.904	0.000	0.904	1.756	5.000	5.000	0.000	0.000	24.622	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 1 / HC- Low Cost Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 2: COMMON: Low Cost Mod Kit							
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): Org/Intermediate					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 1 / HC- Low Cost Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 2 of 2: HC Low Cost Mod Kits							
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): Org/Intermediate					Installation Quantity: 0		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: OTHACF / Other Aircraft
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207228F, 0207701F, 0401897F	Other Related Program Elements: 0207228F, 0207249F, 0207701F, 0401897F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	527.039	103.854	54.828	29.029	-	29.029	100.874	56.580	57.506	58.751	0.000	988.461
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	527.039	103.854	54.828	29.029	-	29.029	100.874	56.580	57.506	58.751	0.000	988.461
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	527.039	103.854	54.828	29.029	-	29.029	100.874	56.580	57.506	58.751	0.000	988.461

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	0.111	-	0.111	0.113	-	-	-	-	0.224
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds multiple modifications that apply to weapon systems funded at less than 2 million per year as well as weapon systems with much greater budgets. The overall goal of the modifications budgeted is to enhance capability and improve reliability and maintainability.

Funding contained in this platform's documentation directly aids simulator aircraft training systems training enterprise to continue its overall FYDP pilot production increase, thus reducing the USAF pilot shortage.

Battlefield Airborne Communications Node (BACN) provides a Combatant Commander (CCDR) flexible, long-endurance, responsive airborne communications capability. BACN provides a dedicated airborne capability to conduct voice bridging/translation, Tactical Data Link (TDL) gateway, and TDL relay functions for beyond-line-of-sight (BLOS) data communications for the war fighter. Funding for this exhibit contained in PE 0207610F.

Mobility Air Forces (MAF) Training supports the modification and enhancement of high fidelity MAF aircrew training and support systems to meet combat readiness needs, to include efforts to ensure full employment of Distributed Mission Operations (DMO) capabilities. FY21 funding establishes DMO capability of C-130J Maintenance and Aircrew Training Systems.

Advanced Targeting Pods (ATPs) provide long-range target acquisition and expanded weapon delivery envelopes for greater aircraft survivability. ATP capabilities, such as high resolution imagery, larger aperture, eye safe laser, high system reliability and smaller deployment footprint provide greater combat effectiveness across several mission areas.

Funding for this exhibit contained in PE 0207228F, 0207224F, 0207249F, 0303601F, 0401897F.

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 to civilian authorities.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
OTHACF / Other Aircraft

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207228F, 0207701F, 0401897F **Other Related Program Elements:** 0207228F, 0207249F, 0207701F, 0401897F

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-40a***	8669 / Full Combat Mission Training (Capability Improvement)				- / 76.404	- / -	- / -	- / 0.000	- / -	- / 0.000
P-40a***	8670 / MAF Training (Capability Improvement)				- / 33.786	- / 16.505	- / 0.097	- / 0.062	- / -	- / 0.062
P-40a***	8674 / ATP upgrade Legacy to SE (Other)				- / 136.078	- / 25.926	- / 0.227	- / -	- / -	- / -
P-40a***	8675 / ATP-SE Technology Insertion (Capability Improvement)				- / 100.997	- / 21.521	- / 14.591	- / -	- / -	- / -
P-40a***	8735 / DAS000 (ROBE) (Capability Improvement)				- / 10.400	- / -	- / -	- / -	- / -	- / -
P-40a***	8736 / Counterdrug USSOUTHCOM Support (No text provided.)				- / 1.200	- / -	- / -	- / -	- / -	- / -
P-40a***	99999J / MISCELLANEOUS LOW COSTS MODS (Combat Developments) (Other)				- / 147.551	- / 0.154	- / 0.154	- / 0.096	- / -	- / 0.096
P-40a***	HH-60U / HH-60U (Capability Improvement)				- / 5.508	- / 1.897	- / 1.861	- / 1.133	- / -	- / 1.133
P-3a	8676 / ATP-TI Increment 1 (Other)		A		- / -	- / 0.000	- / 0.000	- / 9.476	- / 0.000	- / 9.476
P-3a	8733 / Battlefield ABN Comm Node (BACN) (Other)		A		- / 15.115	- / 37.851	- / 37.898	- / 18.262	- / 0.000	- / 18.262
P-40	Total Gross/Weapon System Cost				- / 527.039	- / 103.854	- / 54.828	- / 29.029	- / -	- / 29.029

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-40a***	8669 / Full Combat Mission Training (Capability Improvement)				- / 0.000	- / 0.000	- / -	- / -	- / -	- / 76.404
P-40a***	8670 / MAF Training (Capability Improvement)				- / 0.104	- / 0.107	- / 0.108	- / 0.110	- / -	- / 50.879
P-40a***	8674 / ATP upgrade Legacy to SE (Other)				- / -	- / -	- / -	- / -	- / -	- / 162.231
P-40a***	8675 / ATP-SE Technology Insertion (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 137.109
P-40a***	8735 / DAS000 (ROBE) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 10.400
P-40a***	8736 / Counterdrug USSOUTHCOM Support (No text provided.)				- / -	- / -	- / -	- / -	- / -	- / 1.200
P-40a***	99999J / MISCELLANEOUS LOW COSTS MODS (Combat Developments) (Other)				- / 0.165	- / 0.169	- / 0.170	- / 0.173	- / -	- / 148.632
P-40a***	HH-60U / HH-60U (Capability Improvement)				- / 1.917	- / 1.953	- / 1.985	- / 2.029	- / -	- / 18.283
P-3a	8676 / ATP-TI Increment 1 (Other)		A		- / 53.374	- / 54.351	- / 55.243	- / 56.439	- / -	- / 228.883
P-3a	8733 / Battlefield ABN Comm Node (BACN) (Other)		A		- / 45.314	- / -	- / -	- / -	- / -	- / 154.440
P-40	Total Gross/Weapon System Cost				- / 100.874	- / 56.580	- / 57.506	- / 58.751	- / 0.000	- / 988.461

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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 funding will support:

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: OTHACF / Other Aircraft
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207228F, 0207701F, 0401897F	Other Related Program Elements: 0207228F, 0207249F, 0207701F, 0401897F
Line Item MDAP/MAIS Code: N/A		
<p>Procurement of new payload capabilities & integration as well as purchases of other mods, components, and related provisioning supplies for the existing BACN weapon system to include interim contract support.</p> <p>The modification and enhancement of high fidelity MAF aircrew training and support systems to meet combat readiness needs, to include efforts to ensure full employment of Distributed Mission Operations (DMO) capabilities.</p> <p>Modification of Advanced Targeting Pods (ATPs) provide long-range target acquisition and expanded weapon delivery envelopes for greater aircraft survivability.</p> <p>HH-60/HH-60U modifications.</p> <p>Miscellaneous Low Cost mods in support of Combat Developments.</p>		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8676 / ATP-TI Increment 1
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.000	0.000	9.476	0.000	9.476	53.374	54.351	55.243	56.439	-	228.883
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.000	0.000	9.476	0.000	9.476	53.374	54.351	55.243	56.439	-	228.883
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	0.000	0.000	9.476	0.000	9.476	53.374	54.351	55.243	56.439	-	228.883
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 8676, Advanced Targeting Pod Tech-Insertion (ATP-TI) Increment 1, is a not new start. ATP-TI is a continuation effort of Advanced Targeting Pod Sensor Enhancement (ATP-SE).

The ATP-TI Increment 1 effort is built upon performance baselines of Sensor Enhanced Sniper and LITENING pods and extends capabilities of the currently fielded pods. The program will address requirements centered on hardware and software upgrades and associated host platform integration (to include necessary test), modification of spares, correction of service life deficiencies, technical order, repair data, studies and support of organic depot repair requirements. ATP-TI will continuously enhance Combat Identification (CID) to improve combat effectiveness and reduce collateral damage via modification and integration of hardware. In addition, this requirement provides for program management support (PMA). Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Quantities will vary based on funding, negotiated prices, and COCOM requirements.

Funding for this exhibit contained in PE 0207249F

Milestone/Development Status

Upgrades will incorporate capabilities developed by industry and the ATP contracts.

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 **P-1 Line Item Number / Title:** OTHACF / Other Aircraft **Modification Number / Title:** 8676 / ATP-TI Increment 1

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

Models of Systems Affected: A-10, F-15C, F-15E, F-16, B-1, B-52 **Modification Type:** Other **Related RDT&E PEs:** 0207249F

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Upgrade Kits												
A Kits												
Recurring												
Upgrade Kits:INSTALL KITS Group A (Active)	- / -	- / -	- / -	80 / 9.476	- / -	80 / 9.476	400 / 53.374	400 / 54.351	400 / 55.243	400 / 56.439	- / -	1,680 / 228.883
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 9.476	- / -	- / 9.476	- / 53.374	- / 54.351	- / 55.243	- / 56.439	- / -	- / 228.883
<i>Subtotal: Upgrade Kits</i>	- / -	- / -	- / -	- / 9.476	- / -	- / 9.476	- / 53.374	- / 54.351	- / 55.243	- / 56.439	- / -	- / 228.883
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 9.476	- / -	- / 9.476	- / 53.374	- / 54.351	- / 55.243	- / 56.439	- / -	- / 228.883
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	9.476	0.000	9.476	53.374	54.351	55.243	56.439	-	228.883

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: OTHACF / Other Aircraft			Modification Number / Title: 8676 / ATP-TI Increment 1	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 1: Upgrade Kits							
Manufacturer Information							
Manufacturer Name: Northrop Grumman; Lockheed Martin				Manufacturer Location: Rolling Meadows, IL; Orlando, FL			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 14			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Nov 2022	Nov 2023	Nov 2024	Nov 2025	Nov 2026
Delivery Dates			Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 1680		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8733 / Battlefield ABN Comm Node (BACN)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	15.115	37.851	37.898	18.262	0.000	18.262	45.314	-	-	-	-	154.440
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	15.115	37.851	37.898	18.262	0.000	18.262	45.314	-	-	-	-	154.440
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	15.115	37.851	37.898	18.262	0.000	18.262	45.314	-	-	-	-	154.440

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 8733, Battlefield ABN Comm Node (BACN).

Battlefield Airborne Communication Node (BACN) provides a Combatant Commander (CCDR) flexible, long-endurance, responsive airborne communications capability. BACN provides a dedicated airborne capability to conduct voice bridging/translation, Tactical Data Link (TDL) gateway, and TDL relay functions for beyond-line-of-sight (BLOS) data communications. Includes integration of Survivability UON - Military GPS (MIL GPS), M Code Military GPS, Protected Tactical Waveform (PTW), High Capacity Backbone (HCB), Identify Friend or Foe (IFF), emerging capabilities, Supplemental Type Certs (STC), and Electronic Flight Bags (EFB).

Funding for this exhibit contained in PE 0207610F.

Milestone/Development Status

BACN includes the payload, its host platforms, and associated ground systems. The program is currently in the Operations and Support (O&S) Phase of the Life Cycle Management System. As requirements emerge for new hardware and software capabilities that improve system performance, external time references, interoperability and open mission system technologies, BACN will host the integration of these and future emerging technologies, such as High Capacity Backbone (HCB), and Protected Tactical Waveform (PTW).

Funding will be used to address Diminishing Manufacturing Sources (DMS) Issues. This may include modifications required for enhanced capability and improvements to system reliability and maintainability. Additionally this funding may be used for safety of flight considerations, which includes but not limited to, aircraft/payload performance, aircraft structural integrity, availability, and continuity of service requirements for long range reference, local area reference, and landing/ terminal reference.

This effort includes Military GPS, advanced navigation systems and any additional mandates levied on the BACN system and platforms. Funding will also be used for fulfillment of requirements in support of alteration, conversion, modernization, and transition to a normalized Program of Record.

Transition to BACN Program of Record requires additional BACN aircraft platforms to meet the service retained capability requirements of Combatant Commanders needs emerge in multiple AOR's. This will include, but not be limited to, standardization of avionics baseline and the production of all Supplemental Type Certificates of the most up to date configurations of the fleet.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: OTHACF / Other Aircraft				Modification Number / Title: 8733 / Battlefield ABN Comm Node (BACN)					
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: MULTI				Modification Type: Other				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> BACN Aircraft													
A Kits													
Recurring													
BACN Aircraft:INSTALL KITS Group A (Active)	1 / 7.000	1 / 18.945	1 / 19.328	1 / 15.000	- / -	1 / 15.000	1 / 22.415	- / -	- / -	- / -	- / -	5 / 82.688	
<i>Subtotal: Recurring</i>	- / 7.000	- / 18.945	- / 19.328	- / 15.000	- / -	- / 15.000	- / 22.415	- / -	- / -	- / -	- / -	- / 82.688	
<i>Subtotal: BACN Aircraft</i>	- / 7.000	- / 18.945	- / 19.328	- / 15.000	- / -	- / 15.000	- / 22.415	- / -	- / -	- / -	- / -	- / 82.688	
<i>Subtotal: Procurement, All Modification Items</i>	- / 7.000	- / 18.945	- / 19.328	- / 15.000	- / -	- / 15.000	- / 22.415	- / -	- / -	- / -	- / -	- / 82.688	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / 1.461	- / 0.749	- / 1.000	- / -	- / 1.000	- / 2.037	- / -	- / -	- / -	- / -	- / 5.247	
<i>Subtotal: Support</i>	- / -	- / 1.461	- / 0.749	- / 1.000	- / -	- / 1.000	- / 2.037	- / -	- / -	- / -	- / -	- / 5.247	
Installation													
<i>Modification Item 1 of 1:</i> BACN Aircraft	1 / 8.115	1 / 17.445	1 / 17.821	1 / 2.262	- / -	1 / 2.262	1 / 20.862	- / -	- / -	- / -	- / -	5 / 66.505	
<i>Subtotal: Installation</i>	1 / 8.115	1 / 17.445	1 / 17.821	1 / 2.262	- / -	1 / 2.262	1 / 20.862	- / -	- / -	- / -	- / -	5 / 66.505	
Total													
Total Cost (Procurement + Support + Installation)	15.115	37.851	37.898	18.262	0.000	18.262	45.314	-	-	-	-	154.440	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8733 / Battlefield ABN Comm Node (BACN)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: BACN Aircraft

Manufacturer Information

Manufacturer Name: Bombardier	Manufacturer Location: Bridgeport, WV
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 8

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

Installation Information

Method of Implementation: Contractor Facility

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 / 8.115	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.115
FY 2021	- / -	1 / 17.445	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 17.445
FY 2022	- / -	- / -	1 / 17.821	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 17.821
FY 2023	- / -	- / -	- / -	1 / 2.262	- / -	1 / 2.262	- / -	- / -	- / -	- / -	- / -	1 / 2.262
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 20.862	- / -	- / -	- / -	- / -	1 / 20.862
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 8.115	1 / 17.445	1 / 17.821	1 / 2.262	- / -	1 / 2.262	1 / 20.862	- / -	- / -	- / -	- / -	5 / 66.505

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	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5
Out	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	0	5

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0205219F	Other Related Program Elements: 0205219F
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Line Item MDAP/MAIS Code: 424

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,577.475	155.011	144.287	64.370	-	64.370	64.778	12.240	12.077	28.961	0.000	2,059.199
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,577.475	155.011	144.287	64.370	-	64.370	64.778	12.240	12.077	28.961	0.000	2,059.199
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,577.475	155.011	144.287	64.370	-	64.370	64.778	12.240	12.077	28.961	0.000	2,059.199

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	2.080	2.080
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

MQ-9 Reaper procurement includes all components of the MQ-9 weapon system. The basic MQ-9 Reaper system consists of the aircraft, sensors, a Ground Control Station (GCS), communications equipment, weapon kits, support equipment, simulator and training devices, technical data/training, and personnel required to operate, maintain, and sustain the system. The system is designed to be modular and open-ended. Mission-specific equipment is employed in a plug-and-play mission kit concept allowing specific aircraft and Ground Control Station (GCS) configurations to be tailored to fit mission needs.

MQ-9 aircraft will continue to be modified to ensure aircraft are standardized with the latest configuration. Additionally, the MQ-9 system will continue to evolve and upgrade its capabilities to satisfy new requirements and to address Reliability and Maintainability (R&M) and safety issues as they arise. MQ-9 Mods also includes, but is not limited to, aircraft, sensors, ground control stations, and ground support system retrofit to baseline configurations.

The Air Force established the MQ-9 Multi-Domain Operation (M2DO) aircraft configuration which consisted of multiple projects intended to keep the platform viable in the wide-spectrum of armed conflict. The configuration included Anti-Jam Global Positioning System, Enhanced Power, Link 16, Open Mission System/Stellar Relay, Signal Excision, Digital Spread Spectrum Signal, Emergency Line of Site, Enhanced Auto-Takeoff and Landing, Enhanced Autonomy (including Intelligence Electronic Units). The number of M2DO aircraft, and final capabilities within this configuration, are subject to change as requirements evolve.

There are currently 158 Block 1 and 183 Block 5 MQ-9 aircraft (as of March 2022) totaling 341 in the inventory. Not all 341 aircraft will receive every modification. Modification quantities will vary due to attrition, budget constraints, and aircraft being modified by other customers. For each P-3a the number of aircraft funded with baseline modification funding is identified.

The Extended Range modification requirement was validated by the Chairman of the Joint Chiefs (September 2017) of Staff in conjunction with the Warfighter Senior Integration Group in response to a Joint Urgent Operational Need (JUON). This JUON is in close-out.

Efforts in this summary and associated P-3A's have been broken out into several modifications: 9151, 9152, 9154, 9155, 9159, 9164, 9167, and low cost modifications.

This program will revise quantities based on updated user requirements, aircraft availability, and as funding permits. Funding may be used to address Diminishing Manufacturing Sources (DMS) and Non-Recurring Engineering (NRE) issues.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0205219F	Other Related Program Elements: 0205219F
Line Item MDAP/MAIS Code: 424		
<p>This program has associated Research, Development Test and Evaluation (RDT&E) AF funding in MQ-9 PE 0205219F.</p> <p>Funding for this exhibit contained in PE 0205219F.</p> <p>Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.</p> <p>The Air Force continues to evaluate options to reduce lifecycle costs for the EO/IR sensor for the MQ-9A platform which could include dual sourcing an alternative material EO/IR solution.</p> <p>The FY23 PB funding request was reduced by 38.06 Million to account for the availability of prior year execution balances.</p>		

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
PRDTB2 / MQ-9 Mods

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0205219F **Other Related Program Elements:** 0205219F

Line Item MDAP/MAIS Code: 424

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	9151 / Block 5 (Capability Improvement)		B		- / 76.267	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	9152 / MQ-9 Field (Capability Improvement)		B		- / 312.274	- / 26.244	- / 0.275	- / 0.000	- / 0.000	- / 0.000
P-3a	9154 / Lynx SAR (Capability Improvement)		B		- / 96.137	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	9155 / GCS Blk 30 (Capability Improvement)		B		- / 187.522	- / 17.648	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	9159 / R&M enhancements (Reliability & Maintainability)		B		- / 83.418	- / 7.782	- / 4.690	- / 4.005	- / 0.000	- / 4.005
P-3a	9164 / Extended Range MQ-9 (Capability Improvement)		B		- / 341.638	- / 11.695	- / 6.350	- / 1.187	- / 0.000	- / 1.187
P-3a	9167 / MQ-9 Upgrade (Capability Improvement)		B		- / 465.649	- / 89.642	- / 130.972	- / 59.178	- / 0.000	- / 59.178
P-3a	1 / MQ-9 Low Cost Mods (Reliability & Maintainability)		B		- / 14.570	- / 2.000	- / 2.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,577.475	- / 155.011	- / 144.287	- / 64.370	- / -	- / 64.370

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	9151 / Block 5 (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 76.267
P-3a	9152 / MQ-9 Field (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 338.793
P-3a	9154 / Lynx SAR (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 96.137
P-3a	9155 / GCS Blk 30 (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 205.170
P-3a	9159 / R&M enhancements (Reliability & Maintainability)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 99.895
P-3a	9164 / Extended Range MQ-9 (Capability Improvement)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 360.870
P-3a	9167 / MQ-9 Upgrade (Capability Improvement)		B		- / 64.778	- / 12.240	- / 12.077	- / 28.961	- / 0.000	- / 863.497
P-3a	1 / MQ-9 Low Cost Mods (Reliability & Maintainability)		B		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 18.570
P-40	Total Gross/Weapon System Cost				- / 64.778	- / 12.240	- / 12.077	- / 28.961	- / 0.000	- / 2,059.199

*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:
Where applicable, justification for individual modifications is provided in the P-3A exhibits

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9151 / Block 5

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	76.267	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	76.267
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	76.267	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	76.267
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	76.267	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	76.267

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This modification program includes 2 overarching projects:

Project 1: Upgrades to all MQ-9 Block 1 aircraft. This includes, but is not limited to upgrading the secure communications for the aircraft.

Project 2: Adding new capability into the MQ-9 Block 5 configuration. Specifically, the first effort (Block 5 Modification Project 2) includes, but is not limited to: Vortex Block 5. Release 1 is covered under the Block 5 modification program.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D

Milestone/Development Status

Block 5 effort is complete and no additional funding is being requested.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods					Modification Number / Title: 9151 / Block 5			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: MQ-9			Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
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)
RDT&E PE #												
0205219F	- / 1,592.583	- / 103.245	- / 85.135	- / 98.499	- / -	- / 98.499	- / 80.940	- / 44.674	- / 45.606	- / 46.621	- / -	- / 2,097.303
Procurement												
<i>Modification Item 1 of 1: Hybrid Release 1</i>												
A Kits												
Recurring												
Hybrid Release 1:INSTALL KITS Group A (Active)	110 / 2.694	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	110 / 2.694
<i>Subtotal: Recurring</i>	- / 2.694	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.694
B Kits												
Recurring												
Hybrid Release 1:EQUIPMENT Group B (Active)	110 / 12.285	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 12.285
<i>Subtotal: Recurring</i>	- / 12.285	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.285
<i>Subtotal: Hybrid Release 1</i>	- / 14.979	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 14.979
<i>Subtotal: Procurement, All Modification Items</i>	- / 14.979	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 14.979
Support (All Modification Items)												
OTHER GOVT	- / 60.008	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / 60.008
<i>Subtotal: Support</i>	- / 60.008	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / 60.008
Installation												
<i>Modification Item 1 of 1: Hybrid Release 1</i>	110 / 1.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 1.280
<i>Subtotal: Installation</i>	110 / 1.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 1.280
Total												
Total Cost (Procurement + Support + Installation)	76.267	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	76.267

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9151 / Block 5
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Hybrid Release 1

Manufacturer Information

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

Administrative Leadtime (in Months): 8 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: 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	110 / 1.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 1.280
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	110 / 1.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 1.280

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	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	110
Out	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	110

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9152 / MQ-9 Field

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	312.274	26.244	0.275	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	338.793
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	312.274	26.244	0.275	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	338.793
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	312.274	26.244	0.275	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	338.793

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Development is complete. FY21-22 funding primarily used to support VORTEX encrypted Data Links, Bandwidth Efficient-CDL (BE-CDL), POAM Mandates, SAASM, BADDC, BLOS, and DMS efforts.

This modification is a portion of the field retrofit program that upgrades MQ-9 aircraft with enhanced capabilities and utilizes a field team to perform the modification. Upgrades that are part of this modification, include but are not limited to, High Definition (HD) aircraft upgrades, Bomb Release Units (BRU)-71 bomb racks, Heavyweight Main Landing Gear (HMLG), VORTEX encrypted Data Links, Bandwidth Efficient Common Data Link (BE-CDL), POAM Mandates, Stores Management System (SMS), Selective Availability Anti-Spoofing Module (SAASM), cast sump, fuel bladders, Radar Altimeters, Barrett Asymmetric Digital Data Link Computers (BADDC), Beyond Line of Site (BLOS), Global Positioning System (GPS) splitter, Block 5 Power, and Command and Control data-link resiliency, and use of Retrofit facility space. The associated costs reflect all costs associated with the multiple elements of the MQ-9 field retrofits.

The quantity of aircraft for each modification varies depending on when the capability was cut into production.

Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.

Milestone/Development Status

MQ-9 Field effort is complete.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods					Modification Number / Title: 9152 / MQ-9 Field			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: MQ-9			Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
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)
RDT&E PE #												
0205219F	- / 1,592.583	- / 103.245	- / 85.135	- / 98.499	- / -	- / 98.499	- / 80.940	- / 44.674	- / 45.606	- / 46.621	- / -	- / 2,097.303
Procurement												
Modification Item 1 of 1: MQ-9 Field Mods												
A Kits												
Recurring												
MQ-9 Field Mods:INSTALL KITS Group A (Active)	753 / 26.977	55 / 1.254	38 / 0.041	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	846 / 28.272
<i>Subtotal: Recurring</i>	- / 26.977	- / 1.254	- / 0.041	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.272
B Kits												
Recurring												
MQ-9 Field Mods:EQUIPMENT Group B (Active)	753 / 239.243	55 / 21.126	38 / 0.187	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	846 / 260.556
<i>Subtotal: Recurring</i>	- / 239.243	- / 21.126	- / 0.187	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 260.556
<i>Subtotal: MQ-9 Field Mods</i>	- / 266.220	- / 22.380	- / 0.228	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 288.828
<i>Subtotal: Procurement, All Modification Items</i>	- / 266.220	- / 22.380	- / 0.228	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 288.828
Support (All Modification Items)												
OTHER GOVT	- / 28.549	- / 2.627	- / 0.026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 31.202
<i>Subtotal: Support</i>	- / 28.549	- / 2.627	- / 0.026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 31.202
Installation												
Modification Item 1 of 1: MQ-9 Field Mods	618 / 17.505	120 / 1.237	55 / 0.021	38 / 0.000	- / -	38 / 0.000	15 / 0.000	- / -	- / -	- / -	- / -	846 / 18.763
<i>Subtotal: Installation</i>	618 / 17.505	120 / 1.237	55 / 0.021	38 / -	- / -	38 / -	15 / -	- / -	- / -	- / -	- / -	846 / 18.763
Total												
Total Cost (Procurement + Support + Installation)	312.274	26.244	0.275	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	338.793

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9152 / MQ-9 Field
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: MQ-9 Field Mods

Manufacturer Information

Manufacturer Name: General Atomics-ASI Manufacturer Location: Poway, CA

Administrative Leadtime (in Months): 8 Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Depot Field Team

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	618 / 17.505	120 / 1.237	15 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	753 / 18.742
FY 2021	- / -	- / -	40 / 0.021	15 / 0.000	- / -	15 / 0.000	- / -	- / -	- / -	- / -	- / -	55 / 0.021
FY 2022	- / -	- / -	- / -	23 / 0.000	- / -	23 / 0.000	15 / 0.000	- / -	- / -	- / -	- / -	38 / 0.000
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	618 / 17.505	120 / 1.237	55 / 0.021	38 / 0.000	- / -	38 / 0.000	15 / 0.000	- / -	- / -	- / -	- / -	846 / 18.763

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	618	30	30	30	30	13	14	14	14	9	9	10	10	3	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	0	846
Out	618	30	30	30	30	13	14	14	14	9	9	10	10	3	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	0	846

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9154 / Lynx SAR

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	96.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	96.137
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	96.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	96.137
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	96.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	96.137

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Lynx Block 20A Synthetic Aperture Radar (SAR) began production in July 2012. This effort retrofits the 110 MQ-9 aircraft equipped with the older Lynx Block 20 SAR with the current production configuration (LNXD22000-003-000) of the Lynx Block 20A. This effort also retrofits/upgrades the Lynx Block 20A SAR produced in the earlier LNXD22000-001 and LNXD22000-002 configurations to the current production configuration. Retrofitting all Lynx radars to the current production configuration of the Lynx Block 20A SAR enhances fielded capability, significantly improves reliability and maintainability, provides the capability to locate and track dismounted targets, allows for the use of retrofit facility space, resolves Diminishing Manufacturing Sources (DMS) issues with the fielded radars, addresses security concerns, and facilitates future growth of capabilities.

Milestone/Development Status

Lynx SAR effort is complete and no additional funding is being requested.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods						Modification Number / Title: 9154 / Lynx SAR			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: MQ-9				Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
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)	
RDT&E PE #													
0205219F	- / 1,592.583	- / 103.245	- / 85.135	- / 98.499	- / -	- / 98.499	- / 80.940	- / 44.674	- / 45.606	- / 46.621	- / -	- / 2,097.303	
Procurement													
<i>Modification Item 1 of 1: Lynx SAR</i>													
A Kits													
Recurring													
Lynx SAR:INSTALL KITS Group A (Active)	76 / 10.218	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 10.218	
<i>Subtotal: Recurring</i>	- / 10.218	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.218	
B Kits													
Recurring													
Lynx SAR:EQUIPMENT Group B (Active)	76 / 79.272	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 79.272	
<i>Subtotal: Recurring</i>	- / 79.272	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 79.272	
<i>Subtotal: Lynx SAR</i>	- / 89.490	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 89.490	
<i>Subtotal: Procurement, All Modification Items</i>	- / 89.490	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 89.490	
Support (All Modification Items)													
OTHER GOVT	- / 6.647	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.647	
<i>Subtotal: Support</i>	- / 6.647	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.647	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	96.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	96.137

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods			Modification Number / Title: 9154 / Lynx SAR	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: Lynx SAR							
Manufacturer Information							
Manufacturer Name: General Atomics-ASI				Manufacturer Location: Poway, CA			
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 (Organic): Org/Intermediate					Installation Quantity: 76		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9155 / GCS Blk 30

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	187.522	17.648	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	205.170
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	187.522	17.648	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	205.170
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	187.522	17.648	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	205.170

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Ground Control Station (GCS) retrofit program upgrades the GCS, including, but not limited to Fixed and Mobile GCS with new Linux processors, high definition displays, ergonomic improvements, software/hardware updates, communications improvements, cyber security improvements, Predator Primary Data Links (PPDLs), 2nd ARC-210 radio capabilities, emergency line of sight, open architecture and Barrett Asymmetric Digital Data Link Computers (BADDs). Through an incremental approach, GCS retrofits the legacy system with user-prioritized capabilities to include significant Human-Machine Interface (HMI) improvements and reliability and maintenance enhancements. Unit costs vary due to the mix of fixed and mobile retrofits, which have varying costs.

Milestone/Development Status

GCS Block 30 effort is complete and no additional funding is being requested.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods						Modification Number / Title: 9155 / GCS Blk 30		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: MQ-9				Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F				
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)
RDT&E PE #												
0205219F	- / 1,592.583	- / 103.245	- / 85.135	- / 98.499	- / -	- / 98.499	- / 80.940	- / 44.674	- / 45.606	- / 46.621	- / -	- / 2,097.303
Procurement												
Modification Item 1 of 1: GCS Block 30												
A Kits												
Recurring												
GCS Block 30:INSTALL KITS Group A (Active)	76 / 13.134	- / 0.346	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 13.480
<i>Subtotal: Recurring</i>	- / 13.134	- / 0.346	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.480
B Kits												
Recurring												
GCS Block 30:EQUIPMENT Group B (Active)	76 / 96.504	- / 6.098	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 102.602
<i>Subtotal: Recurring</i>	- / 96.504	- / 6.098	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 102.602
<i>Subtotal: GCS Block 30</i>	- / 109.638	- / 6.444	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 116.082
<i>Subtotal: Procurement, All Modification Items</i>	- / 109.638	- / 6.444	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 116.082
Support (All Modification Items)												
Change Orders	- / 1.210	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.210
OTHER GOVT	- / 15.083	- / 2.752	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.835
<i>Subtotal: Support</i>	- / 16.293	- / 2.752	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.045
Installation												
Modification Item 1 of 1: GCS Block 30	70 / 61.591	6 / 8.452	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 70.043
<i>Subtotal: Installation</i>	70 / 61.591	6 / 8.452	0 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 70.043
Total												
Total Cost (Procurement + Support + Installation)	187.522	17.648	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	205.170

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9155 / GCS Blk 30
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: GCS Block 30

Manufacturer Information

Manufacturer Name: General Atomics-ASI	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 3

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 Field Team

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	70 / 61.591	6 / 8.452	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 70.043
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	70 / 61.591	6 / 8.452	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 70.043

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	70	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	76	
Out	70	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	76	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9159 / R&M enhancements

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	83.418	7.782	4.690	4.005	0.000	4.005	0.000	0.000	0.000	0.000	-	99.895
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	83.418	7.782	4.690	4.005	0.000	4.005	0.000	0.000	0.000	0.000	-	99.895
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	83.418	7.782	4.690	4.005	0.000	4.005	0.000	0.000	0.000	0.000	-	99.895

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	2.080	2.080
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This effort enables Reliability and Maintainability (R&M) modifications to the MQ-9 aircraft, sensor payloads, Ground Control Stations (GCS), and simulators. R&M modifications improve component mean time between failure and maintenance action rate requirements, and drive down system sustainability costs. Examples include, but are not limited to improved oil system sampling, new battery junction boxes, angle of attack probes, Ruggedized Aircraft Maintenance Test System (RAMTS), use of retrofit facility space, and improved power inverters. This effort addresses R&M issues identified by the Joint Reliability and Maintainability Evaluation Team (JRMET) and CAT I deficiency reports.

The requirement for R&M Enhancements is validated in the MQ-9 Capability Production Document dated 8 August 2006. The quantity of aircraft for each Block 1 & Block 5 modification varies depending on when the capability was cut into production. In FY21 and out, the R&M funding will be used to conduct other R&M modifications as required and quantities will vary based on funding and user requirements.

This program will revise quantities based on updated user requirements, aircraft availability, and as funding permits.

Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.

Under this effort the Contractor may provide manufacturing, installation, and acceptance testing to all reliability and maintainability modifications on MQ-9 aircraft and ground based systems.

This mod also includes updates to the MALET Stand Alone Trainer (MSAT) family of systems configuration simulator.

Milestone/Development Status

The MQ-9 program will continue to develop, test, and recommend reliability, maintainability, availability, sustainability, and safety enhancements and solutions for implementation on the MQ-9 platform and ground based systems in an effort to improve aircraft and payload availability and reduce lifecycle costs.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods						Modification Number / Title: 9159 / R&M enhancements			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: MQ-9			Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0205219F						
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)	
RDT&E PE #													
0205219F	- / 1,592.583	- / 103.245	- / 85.135	- / 98.499	- / -	- / 98.499	- / 80.940	- / 44.674	- / 45.606	- / 46.621	- / -	- / 2,097.303	
Procurement													
Modification Item 1 of 1: R&M Enhancements													
A Kits													
Recurring													
R&M Enhancements:INSTALL KITS Group A (Active)	170 / 6.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 6.650	
<i>Subtotal: Recurring</i>	- / 6.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.650	
B Kits													
Recurring													
R&M Enhancements:EQUIPMENT Group B (Active)	170 / 70.387	- / 6.782	- / 4.100	- / 3.564	- / -	- / 3.564	- / -	- / -	- / -	- / -	- / -	170 / 84.833	
<i>Subtotal: Recurring</i>	- / 70.387	- / 6.782	- / 4.100	- / 3.564	- / -	- / 3.564	- / -	- / -	- / -	- / -	- / -	- / 84.833	
<i>Subtotal: R&M Enhancements</i>	- / 77.037	- / 6.782	- / 4.100	- / 3.564	- / -	- / 3.564	- / -	- / -	- / -	- / -	- / -	- / 91.483	
<i>Subtotal: Procurement, All Modification Items</i>	- / 77.037	- / 6.782	- / 4.100	- / 3.564	- / -	- / 3.564	- / -	- / -	- / -	- / -	- / -	- / 91.483	
Support (All Modification Items)													
OTHER GOVT	- / 6.381	- / 1.000	- / 0.590	- / 0.441	- / -	- / 0.441	- / -	- / -	- / -	- / -	- / -	- / 8.412	
<i>Subtotal: Support</i>	- / 6.381	- / 1.000	- / 0.590	- / 0.441	- / -	- / 0.441	- / -	- / -	- / -	- / -	- / -	- / 8.412	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	83.418	7.782	4.690	4.005	0.000	4.005	0.000	0.000	0.000	0.000	0.000	-	99.895

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods			Modification Number / Title: 9159 / R&M enhancements	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: R&M Enhancements							
Manufacturer Information							
Manufacturer Name: General Atomics ASI				Manufacturer Location: Poway CA			
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 (Organic): Org/Intermediate					Installation Quantity: 170		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9164 / Extended Range MQ-9

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	341.638	11.695	6.350	1.187	0.000	1.187	0.000	0.000	0.000	0.000	-	360.870
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	341.638	11.695	6.350	1.187	0.000	1.187	0.000	0.000	0.000	0.000	-	360.870
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	341.638	11.695	6.350	1.187	0.000	1.187	0.000	0.000	0.000	0.000	-	360.870

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program adds Extended Range (ER) capability to the MQ-9 aircraft. Candidate aircraft modifications include, but are not limited to, external fuel tanks with shipping containers, 4-bladed propellers with shipping containers, engine modifications, fuel system modifications, use of retrofit facility space, and software modifications. Current plan is to modify all MQ-9 aircraft to the ER configuration. This program will revise quantities based on updated user requirements and as funding permits.

Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.

The ER modification will be upgrading 113 Block 1 aircraft and 136 Block 5 aircraft per the users identified requirements, but quantities may vary after accounting for adjustments due to aircraft attrition and production cut-in of the ER capability. Overseas Contingency Operations (OCO) funded modifications will have the installations paid for at contract award, but installations will not occur until kits begin to deliver. All other program office installations will be paid for in the year the installations actually occur.

Requirement for this modification was validated by the Chairman of the Joint Chiefs of Staff in conjunction with the Warfighter Senior Integration Group in response to an Urgent Operational Need.

Quantities in FY18 and onward are Block 5 only. There are no hardware requirements beyond FY22. FY23 funding is for installations.

Milestone/Development Status

The Air Force delivered 44 modified Block 1 ER aircraft by July 2016 to meet a Joint Urgent Operational Need (JUON). Per the user's requirement, the final 64 Block 1 ER modification are complete as of May 2020. There are a total of 106 Block 1 ER aircraft in the fleet. No additional Block 1 aircraft are programmed to receive the ER modification. Block 5 aircraft are programmed to be modified to the ER configuration. ER modification will continue to upgrade the remaining delta of 136 Block 5 aircraft.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods				Modification Number / Title: 9164 / Extended Range MQ-9				
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:						
Models of Systems Affected: MQ-9			Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
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)
RDT&E PE #												
0205219F	- / 1,592.583	- / 103.245	- / 85.135	- / 98.499	- / -	- / 98.499	- / 80.940	- / 44.674	- / 45.606	- / 46.621	- / -	- / 2,097.303
Procurement												
Modification Item 1 of 1: Extended Range MQ-9												
A Kits												
Recurring												
Extended Range MQ-9:INSTALL KITS Group A (Active)	257 / 32.511	36 / 0.822	10 / 0.953	0 / 0.177	- / -	0 / 0.177	0 / 0.000	- / -	- / -	- / -	- / -	303 / 34.463
<i>Subtotal: Recurring</i>	- / 32.511	- / 0.822	- / 0.953	- / 0.177	- / -	- / 0.177	- / 0.000	- / -	- / -	- / -	- / -	- / 34.463
B Kits												
Recurring												
Extended Range MQ-9:EQUIPMENT Group B (Active)	257 / 270.216	36 / 8.316	10 / 4.515	0 / 0.844	- / -	0 / 0.844	0 / 0.000	- / -	- / -	- / -	- / -	303 / 283.891
<i>Subtotal: Recurring</i>	- / 270.216	- / 8.316	- / 4.515	- / 0.844	- / -	- / 0.844	- / 0.000	- / -	- / -	- / -	- / -	- / 283.891
<i>Subtotal: Extended Range MQ-9</i>	- / 302.727	- / 9.138	- / 5.468	- / 1.021	- / -	- / 1.021	- / 0.000	- / -	- / -	- / -	- / -	- / 318.354
<i>Subtotal: Procurement, All Modification Items</i>	- / 302.727	- / 9.138	- / 5.468	- / 1.021	- / -	- / 1.021	- / 0.000	- / -	- / -	- / -	- / -	- / 318.354
Support (All Modification Items)												
OTHER GOVT	- / 19.781	- / 2.124	- / 0.647	- / 0.121	- / -	- / 0.121	- / -	- / -	- / -	- / -	- / -	- / 22.673
<i>Subtotal: Support</i>	- / 19.781	- / 2.124	- / 0.647	- / 0.121	- / -	- / 0.121	- / -	- / -	- / -	- / -	- / -	- / 22.673
Installation												
Modification Item 1 of 1: Extended Range MQ-9	208 / 19.130	46 / 0.433	36 / 0.235	13 / 0.045	- / -	13 / 0.045	- / -	- / -	- / -	- / -	- / -	303 / 19.843
<i>Subtotal: Installation</i>	208 / 19.130	46 / 0.433	36 / 0.235	13 / 0.045	- / -	13 / 0.045	- / -	- / -	- / -	- / -	- / -	303 / 19.843
Total												
Total Cost (Procurement + Support + Installation)	341.638	11.695	6.350	1.187	0.000	1.187	0.000	0.000	0.000	0.000	-	360.870

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9164 / Extended Range MQ-9

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: Extended Range MQ-9

Manufacturer Information

Manufacturer Name: General Atomics - ASI	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 5	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					
Delivery Dates	Mar 2022	Mar 2023					

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	208 / 19.130	46 / 0.000	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	257 / 19.130
FY 2021	- / -	0 / 0.433	33 / 0.235	3 / 0.000	- / -	3 / 0.000	- / -	- / -	- / -	- / -	- / -	36 / 0.668
FY 2022	- / -	- / -	- / -	10 / 0.045	- / -	10 / 0.045	- / -	- / -	- / -	- / -	- / -	10 / 0.045
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	208 / 19.130	46 / 0.433	36 / 0.235	13 / 0.045	- / -	13 / 0.045	- / -	- / -	- / -	- / -	- / -	303 / 19.843

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	208	14	14	9	9	9	9	9	9	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	303
Out	202	15	14	14	9	9	9	9	9	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	303

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9167 / MQ-9 Upgrade

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	465.649	89.642	130.972	59.178	0.000	59.178	64.778	12.240	12.077	28.961	0.000	863.497
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	465.649	89.642	130.972	59.178	0.000	59.178	64.778	12.240	12.077	28.961	0.000	863.497
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	465.649	89.642	130.972	59.178	0.000	59.178	64.778	12.240	12.077	28.961	0.000	863.497

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MQ-9 Upgrade program fields new capabilities for the MQ-9 fleet. This program integrates the approved MQ-9 Upgrade Agile Acquisition Strategy, the associated technology maturation efforts, and fielding and sustainment of capabilities associated with Operational Flight Profile releases.

MQ-9 Unmanned Aircraft System retrofits those capabilities into the MQ-9 Block 1 and Block 5 platform as required. Although the content of the OFP releases may change in response to changing mission requirements, at this time releases include, but are not limited to, implementing enhanced data processing & dissemination, high definition electro-optical/infra-red (EO/IR) imagery with the DAS-4 and/or alternative EO/IR sensor, enhanced and redundant power, autonomous systems, artificial Intelligence, upgraded data links, mission assurance and resiliency, improved weapon system security, Link-16, Open Mission Systems, and enhanced weapons integration & targeting capabilities across the MQ-9 enterprise. Due to the Agile Acquisition process, retrofit priorities will be determined and executed by Technology Maturation Effort (TME) maturity, aircraft availability, and operational needs.

Requirement for this modification is validated in the MQ-9 Capability Production Document dated 8 August 2006.

This program will revise quantities based on updated user requirements and as funding permits.

Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.

There are multiple capabilities (within each element of the P-3a) being added to the aircraft, thus the quantities are overstated. Each element will be installed based upon fleet requirements to get to a baseline for that specific capability release.

The quantity of aircraft for each modification varies depending on when the capability was cut into production. For the DAS-4 retrofit, or alternate EO/IR solution, the program planned to modify Block 5 and Block 1 aircraft delivered with or without DAS-4. For the software release retrofits, the program planned to modify Block 5 and Block 1 aircraft as required.

The increase of Other Government Support costs is due to additional MQ-9 Upgrade Retrofits programs and adjustments made from transitioning support from aircraft production to modernizing the fleet through retrofit program(s) to support warfighter and Combatant Command requirements.

The Air Force continues to evaluate options to reduce lifecycle costs for the EO/IR sensor for the MQ-9A platform which could include dual sourcing an alternative material EO/IR solution.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9167 / MQ-9 Upgrade
ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	

Milestone/Development Status

DAS-4 Development completed in Q4 FY14. Procurement of additional equipment developed in the MQ-9 Upgrade program will continue through FY26+.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods						Modification Number / Title: 9167 / MQ-9 Upgrade		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: MQ-9				Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F				
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)
RDT&E PE #												
0205219F	- / 1,592.583	- / 103.245	- / 85.135	- / 98.499	- / -	- / 98.499	- / 80.940	- / 44.674	- / 45.606	- / 46.621	- / -	- / 2,097.303
Procurement												
Modification Item 1 of 2: DAS-4 EO/IR Sensor												
A Kits												
Recurring												
DAS-4 EO/IR Sensor:INSTALL KITS Group A (Active)	233 / 0.000	69 / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	302 / 0.001
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001
B Kits												
Recurring												
DAS-4 EO/IR Sensor:EQUIPMENT Group B (Active)	233 / 378.551	69 / 37.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	302 / 415.683
<i>Subtotal: Recurring</i>	- / 378.551	- / 37.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 415.683
<i>Subtotal: DAS-4 EO/IR Sensor</i>	- / 378.551	- / 37.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 415.684
Modification Item 2 of 2: MQ-9 Upgrade												
A Kits												
Recurring												
MQ-9 Upgrade:INSTALL KITS Group A (Active)	- / 9.923	100 / 11.652	259 / 35.590	424 / 4.540	- / -	424 / 4.540	79 / 16.270	85 / 2.743	14 / 4.789	- / -	- / -	961 / 85.507
<i>Subtotal: Recurring</i>	- / 9.923	- / 11.652	- / 35.590	- / 4.540	- / -	- / 4.540	- / 16.270	- / 2.743	- / 4.789	- / -	- / -	- / 85.507
B Kits												
Recurring												
MQ-9 Upgrade:EQUIPMENT Group B (Active)	160 / 46.356	639 / 38.875	369 / 87.758	158 / 45.609	- / -	158 / 45.609	47 / 37.395	8 / 4.053	5 / 5.497	12 / 25.380	- / -	1,398 / 290.923
<i>Subtotal: Recurring</i>	- / 46.356	- / 38.875	- / 87.758	- / 45.609	- / -	- / 45.609	- / 37.395	- / 4.053	- / 5.497	- / 25.380	- / -	- / 290.923
<i>Subtotal: MQ-9 Upgrade</i>	- / 56.279	- / 50.527	- / 123.348	- / 50.149	- / -	- / 50.149	- / 53.665	- / 6.796	- / 10.286	- / 25.380	- / -	- / 376.430
<i>Subtotal: Procurement, All Modification Items</i>	- / 434.830	- / 87.660	- / 123.348	- / 50.149	- / -	- / 50.149	- / 53.665	- / 6.796	- / 10.286	- / 25.380	- / -	- / 792.114
Support (All Modification Items)												
OTHER GOVT												
	- / 30.819	- / 1.982	- / 7.624	- / 9.029	- / -	- / 9.029	- / 11.113	- / 5.444	- / 1.791	- / 3.581	- / -	- / 71.383
<i>Subtotal: Support</i>	- / 30.819	- / 1.982	- / 7.624	- / 9.029	- / -	- / 9.029	- / 11.113	- / 5.444	- / 1.791	- / 3.581	- / -	- / 71.383
Installation												
Modification Item 2 of 2: MQ-9 Upgrade												
	- / -	- / -	100 / 0.000	259 / 0.000	- / -	259 / 0.000	424 / 0.000	79 / 0.000	85 / 0.000	14 / 0.000	- / -	961 / 0.000
<i>Subtotal: Installation</i>	- / -	- / -	100 / 0.000	259 / 0.000	- / -	259 / 0.000	424 / 0.000	79 / 0.000	85 / 0.000	14 / 0.000	- / -	961 / 0.000
Total												

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 **P-1 Line Item Number / Title:** PRDTB2 / MQ-9 Mods **Modification Number / Title:** 9167 / MQ-9 Upgrade

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

Models of Systems Affected: MQ-9 **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0205219F

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)	465.649	89.642	130.972	59.178	0.000	59.178	64.778	12.240	12.077	28.961	0.000	863.497

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods			Modification Number / Title: 9167 / MQ-9 Upgrade	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 2: DAS-4 EO/IR Sensor							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: McKinney, TX			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 22			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jan 2021						
Delivery Dates	Nov 2022						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 302		

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 9167 / MQ-9 Upgrade
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 2 of 2: MQ-9 Upgrade

Manufacturer Information

Manufacturer Name: General Atomics, ASI	Manufacturer Location: Poway, CA
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Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12
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Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Dec 2020	Jan 2022	Jan 2023	Jan 2024	Jan 2025	Jan 2026	
Delivery Dates	Dec 2021	Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	100 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 0.000
FY 2022	- / -	- / -	- / -	259 / 0.000	- / -	259 / 0.000	- / -	- / -	- / -	- / -	- / -	259 / 0.000
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	424 / 0.000	- / -	- / -	- / -	- / -	424 / 0.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 0.000	- / -	- / -	- / -	79 / 0.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	85 / 0.000	- / -	- / -	85 / 0.000
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.000	- / -	14 / 0.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	100 / 0.000	259 / 0.000	- / -	259 / 0.000	424 / 0.000	79 / 0.000	85 / 0.000	14 / 0.000	- / -	961 / 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	0	-	-	-	-	25	25	25	25	64	65	65	65	106	106	106	106	20	20	20	19	21	21	21	22	4	4	3	3	0	961
Out	0	-	-	-	-	25	25	25	25	64	65	65	65	106	106	106	106	20	20	20	19	21	21	21	22	4	4	3	3	0	961

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods	Modification Number / Title: 1 / MQ-9 Low Cost Mods

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	14.570	2.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	18.570
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	14.570	2.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	18.570
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	14.570	2.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	18.570

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This effort enables the execution of low cost modifications in a timely manner. This program will revise quantities based on updated user requirements and as funding permits.

Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.

Under this effort the contractor shall provide manufacturing, installation, and acceptance testing of low cost modifications on MQ-9 aircraft and ground based systems.

Milestone/Development Status

Development is ongoing.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods						Modification Number / Title: 1 / MQ-9 Low Cost Mods		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: MQ-9				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0205219F				
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)
RDT&E PE #												
0205219F	- / 1,592.583	- / 103.245	- / 85.135	- / 98.499	- / -	- / 98.499	- / 80.940	- / 44.674	- / 45.606	- / 46.621	- / -	- / 2,097.303
Procurement												
Modification Item 1 of 1: MQ-9 Low Cost Mods												
A Kits												
Recurring												
MQ-9 Low Cost Mods:INSTALL KITS Group A (Active)	0 / 0.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.734
<i>Subtotal: Recurring</i>	- / 0.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.734
B Kits												
Recurring												
MQ-9 Low Cost Mods:EQUIPMENT Group B (Active)	0 / 13.836	- / 2.000	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 17.836
<i>Subtotal: Recurring</i>	- / 13.836	- / 2.000	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.836
<i>Subtotal: MQ-9 Low Cost Mods</i>	- / 14.570	- / 2.000	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.570
<i>Subtotal: Procurement, All Modification Items</i>	- / 14.570	- / 2.000	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.570
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	14.570	2.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	18.570

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods			Modification Number / Title: 1 / MQ-9 Low Cost Mods	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: MQ-9 Low Cost Mods							
Manufacturer Information							
Manufacturer Name: General Atomics - ASI				Manufacturer Location: Poway, CA			
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 (Organic): Org/Intermediate					Installation Quantity: 0		

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: PRDTB3 / MQ-9 UAS Payloads
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0305206F	Other Related Program Elements: 0305206F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	70.705	63.500	55.200	0.000	-	0.000	0.000	0.000	0.000	0.000	-	189.405
Less PY Advance Procurement (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	-	-	-	-	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	70.705	63.500	55.200	0.000	-	0.000	0.000	0.000	0.000	0.000	-	189.405
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	70.705	63.500	55.200	0.000	-	0.000	0.000	0.000	0.000	0.000	-	189.405

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	10.700	6.800	-	-	-	-	-	-	-	-	17.500
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Gorgon Stare system is a podded airborne sensor suite that provides city-sized wide area motion imagery and is currently integrated on MQ-9 Reaper Remotely Piloted Aircraft (RPA). The Air Force Requirements Oversight Council (AFROC) approved Air Combat Command's recommendation to transition Gorgon Stare from a Quick Reaction Capability (QRC) to an Air Force Enduring Capability in November 2014. Gorgon Stare's requirements are documented in the Gorgon Stare Wide Area Airborne Sensor draft Capabilities Development Document. The acquisition strategy for this Air Force podded sensor suite solution is sustainment of the current capability with any upgrades implemented via validated -1067s, Urgent Operational Needs, or requirements as documented in the program CDD. Gorgon Stare operations supports JUON CC-0534, which the Joint Rapid Acquisition Cell (JRAC) dispositioned for sustainment.

As of second quarter FY 2022, the Air Force inventory for Gorgon stare includes the following: eight (8) Gorgon Stare pod sets, five (5) Gorgon Stare Mission Controllers (GSMCs), three (3) Gorgon Stare Archive Managers (GSAMs), seven (7) specially-modified MQ-9 Reaper RPAs, and one System Integration Laboratory (SIL).

FY 2020 funding totals included 21.3M in OCO/Direct War funding, to include 21.3M (spares included) for hardware necessary to support Beyond Line Of Sight (BLOS) Phase II modifications.

FY 2021 funding totals included 74.2M OCO/Direct War funding to procure 6 kits total. This included 51.6M (spares included) for 5x Diminishing Manufacturing Sources (DMS) IR Sensors for two (2) combat lines and 17.5M for 1x Gorgon Stare combat loss replacement. Procurement of Full Field of View (FFoV) Tagging and Tracking (T&T) kits was delayed, both to better align with ongoing development efforts and enable the procurement of combat replacement pods. Additionally, procurement of AI processor kits were combined with the DMS processor replacement program currently underway.

FY 2022 funding totals \$62M, including a \$14.4M Congressional Add for a combat loss replacement. The remaining funding procures four DMS IR sensors and nine MQ-9 Block 5 integration kits. Block 5 integration kits include the Dual-Sensor WAMI Pod configuration, allowing the MQ-9 to be armed while also carrying both of the Gorgon Stare sensors in a single pod.

There is no FY2023 funding for this program.

Due to Gorgon Stare's prolonged commitment to overseas operations, the acquisition program manager has the authority to redirect funding as necessary to meet current states and emerging Combatant Commander requirements to better meet the war fighting objectives. The Gorgon Stare program is managed by the 645th Aeronautical Systems Group. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. Funding for this exhibit is contained in PE 0305206F.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: PRDTB3 / MQ-9 UAS Payloads
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0305206F	Other Related Program Elements: 0305206F
Line Item MDAP/MAIS Code: N/A		
Justification: Where applicable, justification for individual modifications is provided in the P-3A exhibits.		

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: SLC3SA / Senior Leader C3, System - Aircraft
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	23.554	24.784	-	24.784	24.775	24.777	24.676	54.670	0.000	177.236
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	23.554	24.784	-	24.784	24.775	24.777	24.676	54.670	0.000	177.236
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	23.554	24.784	-	24.784	24.775	24.777	24.676	54.670	0.000	177.236

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The SLC3S-A Enhancements effort provides the capability to rapidly acquire, integrate in the Systems Integration Lab (SIL), modify, install, and test new airborne communications technologies for two (2) VC-25A, four (4) C-32A, four (4) C-40B, and sixteen (16) C-37A/B Executive Airlift aircraft. These modifications consist of Top Secret/Sensitive Compartmented Information (TS/SCI), Secret (S), and Unclassified voice/data/video architecture enhancements enabling Senior Leaders to make time critical decisions and manage crisis actions while airborne.

These efforts ensure National Senior Leaders have redundant, protected, survivable, and secure satellite, air-to-air, and air-to-ground communications for modern business enterprise systems and Command and Control functions globally while airborne. In addition to the aforementioned modifications, this funding implements National Leadership Command Capability Senior Leader Communications Council actions to correct mission communication system failures and address imminent capability and/or training deltas.

This funding may include, but is not limited to, emerging modification requirements to support Program Support Costs (PCS), Advisory & Assistance Services (A&AS), systems integration lab, trainers, equipment, other government costs, and Senior Leader Communications System modernization efforts.

SLC3S-A unit kit costs are dependent on the starting configuration of each aircraft before modification, the communication upgrades required in the budget year, and the associated installation costs.

Funding for this exhibit is contained in PE 0401314F.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
SLC3SA / Senior Leader C3, System - Aircraft

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0401314F **Other Related Program Elements:** 0401314F

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-40a***	C-40 - SLC3SA / C-40 - SLC3SA (Capability Improvement)				- / -	- / -	- / 3.736	- / 3.105	- / -	- / 3.105
P-40a***	VC-25A - SLC3SA / VC-25A - SLC3SA (Capability Improvement)				- / -	- / -	- / 0.098	- / 0.101	- / -	- / 0.101
P-3a	1 / C-32 - SLC3SA (Capability Improvement)		B		- / 0.000	- / 0.000	- / 6.104	- / 5.220	- / 0.000	- / 5.220
P-3a	2 / C-37 - SLC3SA (Capability Improvement)		B		- / 0.000	- / 0.000	- / 13.616	- / 16.358	- / 0.000	- / 16.358
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 23.554	- / 24.784	- / -	- / 24.784

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-40a***	C-40 - SLC3SA / C-40 - SLC3SA (Capability Improvement)				- / 3.104	- / 4.116	- / 4.200	- / 9.070	- / -	- / 27.331
P-40a***	VC-25A - SLC3SA / VC-25A - SLC3SA (Capability Improvement)				- / 0.101	- / 0.101	- / -	- / -	- / -	- / 0.401
P-3a	1 / C-32 - SLC3SA (Capability Improvement)		B		- / 6.735	- / 12.297	- / 12.248	- / 26.435	- / 0.000	- / 69.039
P-3a	2 / C-37 - SLC3SA (Capability Improvement)		B		- / 14.835	- / 8.263	- / 8.228	- / 19.165	- / 0.000	- / 80.465
P-40	Total Gross/Weapon System Cost				- / 24.775	- / 24.777	- / 24.676	- / 54.670	- / 0.000	- / 177.236

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*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: 2 C-32A's will receive Senior Leader Communications enhancements consisting of, but not limited to, bandwidth aggregation, In-flight Information (IFI), Commercial WiFi, Airborne Executive Phone-Enhanced (AEP-E), and tech refresh.
 FY23: 4 C-37A/B's will receive Senior Leader Communications enhancements consisting of, but not limited to, In-Flight Information (IFI), Commercial WiFi, Ka SATCOM capability, Airborne Executive Phone-Enhanced (AEP-E), Mobile User Objective System (MUOS) generation 6, and tech refresh.
 FY23: 2 C-40B's will receive Senior Leader Communications enhancements consisting of, but not limited to, M3 Modem, bandwidth aggregation, In-flight Information (IFI), Commercial WiFi, Airborne Executive Phone-Enhanced (AEP-E), Mobile User Objective System (MUOS), and tech refresh.
 FY23: Funding is loaded for VC-25A in anticipation of emerging senior leader communications capability requirements.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: SLC3SA / Senior Leader C3, System - Aircraft	Modification Number / Title: 1 / C-32 - SLC3SA

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	6.104	5.220	0.000	5.220	6.735	12.297	12.248	26.435	0.000	69.039
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	6.104	5.220	0.000	5.220	6.735	12.297	12.248	26.435	0.000	69.039
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	6.104	5.220	0.000	5.220	6.735	12.297	12.248	26.435	0.000	69.039

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The SLC3S-A Enhancements effort provides the capability to rapidly acquire, integrate in the Systems Integration Lab (SIL), modify, install, and test new airborne communications technologies for four (4) C-32A Executive Airlift aircraft. These modifications consist of Top Secret/Sensitive Compartmented Information (TS/SCI), Secret (S), and Unclassified voice/data/video architecture enhancements enabling Senior Leaders to make time critical decisions and manage crisis actions while airborne.

These efforts ensure National Senior Leaders have redundant, protected, survivable, and secure satellite, air-to-air, and air-to-ground communications for modern business enterprise systems and Command and Control functions globally while airborne. In addition to the aforementioned modifications, this funding implements National Leadership Command Capability Senior Leader Communications Council actions to correct mission communication system failures and address imminent capability and/or training deltas.

SLC3S-A unit kits costs are dependent on the starting configuration of each aircraft before modification, the communication upgrades required in the budget year, and the associated installation costs.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

The below modification requirements are identified via multiple AF 1067s.

FY23: Two C-32As will be upgraded with Senior Leader Communications enhancements consisting of, but not limited to, bandwidth aggregation, In-flight Information (IFI), Commercial WiFi, Airborne Executive Phone-Enhanced (AEP-E), and technology upgrades.

Milestone/Development Status

Commercial-off-the-shelf item with non-recurring engineering for integration.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: SLC3SA / Senior Leader C3, System - Aircraft						Modification Number / Title: 1 / C-32 - SLC3SA			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: C-32A				Modification Type: Capability Improvement				Related RDT&E PEs: 0401314F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> MCS Upgrade (3)													
A Kits													
Recurring													
MCS Upgrade:INSTALL KITS Group A (Active)	- / -	- / -	2 / 2.333	2 / 2.377	- / -	2 / 2.377	2 / 3.088	2 / 5.638	2 / 5.594	2 / 15.768	- / -	12 / 34.798	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 2.333	- / 2.377	- / -	- / 2.377	- / 3.088	- / 5.638	- / 5.594	- / 15.768	- / -	- / 34.798	
B Kits													
Recurring													
MCS Upgrade:EQUIPMENT Group B (Active)	- / -	- / -	2 / 1.604	2 / 1.676	- / -	2 / 1.676	2 / 1.980	2 / 2.990	2 / 2.990	2 / 7.000	- / -	12 / 18.240	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 1.604	- / 1.676	- / -	- / 1.676	- / 1.980	- / 2.990	- / 2.990	- / 7.000	- / -	- / 18.240	
<i>Subtotal: MCS Upgrade (3)</i>	- / -	- / -	- / 3.937	- / 4.053	- / -	- / 4.053	- / 5.068	- / 8.628	- / 8.584	- / 22.768	- / -	- / 53.038	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 3.937	- / 4.053	- / -	- / 4.053	- / 5.068	- / 8.628	- / 8.584	- / 22.768	- / -	- / 53.038	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / 2.002	- / -	- / -	- / -	- / 3.002	
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.997	- / -	- / -	- / 1.997	
PSC - Other Gov't Costs	- / -	- / -	- / 0.167	- / 0.167	- / -	- / 0.167	- / 0.167	- / 0.167	- / 0.167	- / 0.167	- / -	- / 1.002	
<i>Subtotal: Support</i>	- / -	- / -	- / 1.167	- / 0.167	- / -	- / 0.167	- / 0.167	- / 2.169	- / 2.164	- / 0.167	- / -	- / 6.001	
Installation													
<i>Modification Item 1 of 1:</i> MCS Upgrade (3)													
<i>Subtotal: Installation</i>	- / -	- / -	2 / 1.000	2 / 1.000	- / -	2 / 1.000	2 / 1.500	2 / 1.500	2 / 1.500	2 / 3.500	- / -	12 / 10.000	
<i>Subtotal: Installation</i>	- / -	- / -	2 / 1.000	2 / 1.000	- / -	2 / 1.000	2 / 1.500	2 / 1.500	2 / 1.500	2 / 3.500	- / -	12 / 10.000	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	6.104	5.220	0.000	5.220	6.735	12.297	12.248	26.435	0.000	69.039	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2022																				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: SLC3SA / Senior Leader C3, System - Aircraft					Modification Number / Title: 1 / C-32 - SLC3SA																					
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:																								
Modification Item 1 of 1: MCS Upgrade (3)																															
Manufacturer Information																															
Manufacturer Name: L3Harris Technologies						Manufacturer Location: Greenville, TX																									
Administrative Leadtime (in Months): 0						Production Leadtime (in Months): 5																									
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027																								
Contract Dates		Oct 2021	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026																								
Delivery Dates		Mar 2022	Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027																								
Installation Information																															
Method of Implementation: Contractor Facility																															
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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2022	- / -	- / -	2 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000																			
FY 2023	- / -	- / -	- / -	2 / 1.000	- / -	2 / 1.000	- / -	- / -	- / -	- / -	- / -	2 / 1.000																			
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.500	- / -	- / -	- / -	- / -	2 / 1.500																			
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.500	- / -	- / -	- / -	2 / 1.500																			
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.500	- / -	- / -	2 / 1.500																			
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.500	- / -	2 / 3.500																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total	- / -	- / -	2 / 1.000	2 / 1.000	- / -	2 / 1.000	2 / 1.500	2 / 1.500	2 / 1.500	2 / 3.500	- / -	12 / 10.000																			
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	0	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	0	12
Out	0	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	0	12

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: SLC3SA / Senior Leader C3, System - Aircraft	Modification Number / Title: 2 / C-37 - SLC3SA

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	13.616	16.358	0.000	16.358	14.835	8.263	8.228	19.165	0.000	80.465
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	13.616	16.358	0.000	16.358	14.835	8.263	8.228	19.165	0.000	80.465
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	13.616	16.358	0.000	16.358	14.835	8.263	8.228	19.165	0.000	80.465

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The SLC3S-A Enhancements effort provides the capability to rapidly acquire, integrate in the Systems Integration Lab (SIL), modify, install, and test new airborne communications technologies for sixteen (16) C-37A/B Executive Airlift aircraft. These modifications consist of Top Secret/Sensitive Compartmented Information (TS/SCI), Secret (S), and Unclassified voice/data/video architecture enhancements enabling Senior Leaders to make time critical decisions and manage crisis actions while airborne.

These efforts ensure National Senior Leaders have redundant, protected, survivable, and secure satellite, air-to-air, and air-to-ground communications for modern business enterprise systems and Command and Control functions globally while airborne. In addition to the aforementioned modifications, this funding implements National Leadership Command Capability Senior Leader Communications Council actions to correct mission communication system failures and address imminent capability and/or training deltas.

SLC3S-A unit kits costs are dependent on the starting configuration of each aircraft before modification, the communication upgrades required in the budget year, and the associated installation costs.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

The below modification requirements are identified via multiple AF 1067s.

FY23: Four C-37A/B's will be upgraded with Senior Leader Communications enhancements consisting of, but not limited to, In-Flight Information, Commercial WiFi, Ka SATCOM capability, Airborne Executive Phone-Enhanced (AEP-E), and technology upgrades.

Milestone/Development Status

Commercial-off-the-shelf item with non-recurring engineering for integration.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: SLC3SA / Senior Leader C3, System - Aircraft					Modification Number / Title: 2 / C-37 - SLC3SA			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: C-37				Modification Type: Capability Improvement				Related RDT&E PEs: 0401314F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: MCS Upgrade (2)</i>													
A Kits													
Recurring													
MCS Upgrade:INSTALL KITS Group A (Active)	- / -	- / -	4 / 8.237	4 / 9.696	- / -	4 / 9.696	4 / 8.666	2 / 5.094	2 / 5.058	4 / 14.998	- / -	20 / 51.749	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 8.237	- / 9.696	- / -	- / 9.696	- / 8.666	- / 5.094	- / 5.058	- / 14.998	- / -	- / 51.749	
B Kits													
Recurring													
MCS Upgrade:EQUIPMENT Group B (Active)	- / -	- / -	4 / 2.750	4 / 3.500	- / -	4 / 3.500	4 / 3.000	2 / 2.002	2 / 2.003	4 / 2.000	- / -	20 / 15.255	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 2.750	- / 3.500	- / -	- / 3.500	- / 3.000	- / 2.002	- / 2.003	- / 2.000	- / -	- / 15.255	
<i>Subtotal: MCS Upgrade (2)</i>	- / -	- / -	- / 10.987	- / 13.196	- / -	- / 13.196	- / 11.666	- / 7.096	- / 7.061	- / 16.998	- / -	- / 67.004	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 10.987	- / 13.196	- / -	- / 13.196	- / 11.666	- / 7.096	- / 7.061	- / 16.998	- / -	- / 67.004	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / 0.462	- / 0.995	- / -	- / 0.995	- / 1.002	- / -	- / -	- / -	- / -	- / 2.459	
PSC - Other Gov't Costs	- / -	- / -	- / 0.167	- / 0.167	- / -	- / 0.167	- / 0.167	- / 0.167	- / 0.167	- / 0.167	- / -	- / 1.002	
<i>Subtotal: Support</i>	- / -	- / -	- / 0.629	- / 1.162	- / -	- / 1.162	- / 1.169	- / 0.167	- / 0.167	- / 0.167	- / -	- / 3.461	
Installation													
<i>Modification Item 1 of 1: MCS Upgrade (2)</i>	- / -	- / -	4 / 2.000	4 / 2.000	- / -	4 / 2.000	4 / 2.000	2 / 1.000	2 / 1.000	4 / 2.000	- / -	20 / 10.000	
<i>Subtotal: Installation</i>	- / -	- / -	4 / 2.000	4 / 2.000	- / -	4 / 2.000	4 / 2.000	2 / 1.000	2 / 1.000	4 / 2.000	- / -	20 / 10.000	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	13.616	16.358	0.000	16.358	14.835	8.263	8.228	19.165	0.000	80.465	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: SLC3SA / Senior Leader C3, System - Aircraft	Modification Number / Title: 2 / C-37 - SLC3SA
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: MCS Upgrade (2)

Manufacturer Information

Manufacturer Name: L3Harris Technologies Manufacturer Location: Greenville, TX

Administrative Leadtime (in Months): 0 Production Leadtime (in Months): 2

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

Installation Information

Method of Implementation: Contractor Facility

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	4 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.000
FY 2023	- / -	- / -	- / -	4 / 2.000	- / -	4 / 2.000	- / -	- / -	- / -	- / -	- / -	4 / 2.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.000	- / -	- / -	- / -	- / -	4 / 2.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000	- / -	- / -	- / -	2 / 1.000
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000	- / -	- / -	2 / 1.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.000	- / -	4 / 2.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	4 / 2.000	4 / 2.000	- / -	4 / 2.000	4 / 2.000	2 / 1.000	2 / 1.000	4 / 2.000	- / -	20 / 10.000

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	0	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	-	1	-	1	-	1	1	1	1	0	20
Out	0	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	-	1	-	1	-	1	-	1	1	1	1	1	0	20

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: V02200 / CV-22 Mods
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0401318F
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Line Item MDAP/MAIS Code: 212

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	405.715	119.396	230.962	153.026	-	153.026	157.561	163.322	164.287	156.768	5.997	1,557.034
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	405.715	119.396	230.962	153.026	-	153.026	157.561	163.322	164.287	156.768	5.997	1,557.034
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	405.715	119.396	230.962	153.026	-	153.026	157.561	163.322	164.287	156.768	5.997	1,557.034

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	1.123	6.574	10.525	3.494	-	3.494	-	-	-	-	-	21.716
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The CV-22 is the Air Force Special Operations Forces (SOF) variant of the joint multi-mission V-22 tilt rotor aircraft. The CV-22 provides long-range, high-speed infiltration, exfiltration, and resupply to Special Forces teams in hostile, denied, and politically sensitive areas. The Navy is the lead service for the Joint V-22 program. The Joint Program Manager is responsible for managing all variants of the V-22. Department of the Navy (DoN) funds the development of the MV-22 and CMV-22. The Air Force funds the service-common portion of the CV-22 while United States Special Operations Command (USSOCOM) funds the development and procurement of SOF peculiar systems. The designed service life for the aircraft is 10,000 flying hours over 30 years.

Funding for this exhibit is contained in PE 0401318F.

Funding may be used to address Diminishing Manufacturing Source (DMS) and component obsolescence issues.

This funding may include emerging modification requirements to support Program Support Costs (PSC), Advisory and Assistant Service (A&AS), system integration lab, trainers, equipment and other government cost.

FY21 funding totals include 6.290M for Overseas Contingency Operations (OCO). The funding will be used to procure kits and install Tactical Network (TACNET) Receivers, wiring, and antennas. These kits provide Link 16 capability to provide situational awareness, threat avoidance, sensor points of interest, and fratricide prevention through datalink communication with other airborne and ground forces.

FY21 6.290M of OCO funding will procure 20 Link-16 kits in support of Operation Inherent Resolve (OIR).

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
V02200 / CV-22 Mods

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0401318F

Line Item MDAP/MAIS Code: 212

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	8791 / Block 20 V2 (Capability Improvement)		A		- / 382.311	- / 117.397	- / 227.963	- / 151.027	- / 0.000	- / 151.027
P-3a	1 / Low Cost Modifications (Other)		A		- / 23.404	- / 1.999	- / 2.999	- / 1.999	- / 0.000	- / 1.999
P-40	Total Gross/Weapon System Cost				- / 405.715	- / 119.396	- / 230.962	- / 153.026	- / -	- / 153.026

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	8791 / Block 20 V2 (Capability Improvement)		A		- / 155.562	- / 158.323	- / 159.288	- / 151.769	- / -	- / 1,503.640
P-3a	1 / Low Cost Modifications (Other)		A		- / 1.999	- / 4.999	- / 4.999	- / 4.999	- / 5.997	- / 53.394
P-40	Total Gross/Weapon System Cost				- / 157.561	- / 163.322	- / 164.287	- / 156.768	- / 5.997	- / 1,557.034

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

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

Justification:
The primary modification budgeted in FY 2023 is the Block C/20 Upgrade.

8791/Block 20 upgrades consist of 3 major modification groups: 1) Capability; 2) Reliability; 3) Survivability. The Capability modification group includes 24 individual modifications. The Reliability modification group includes 22 individual modifications. Lastly, the Survivability modification group includes 2 individual modifications.

Contractor Method of Implementation includes Contractor Field Team, Contractor Facility, and Organic/Intermediate due to this Block 20 Modification Item efforts having multiple mods and installation methods imbedded in it.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 Mods	Modification Number / Title: 8791 / Block 20 V2

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	382.311	117.397	227.963	151.027	0.000	151.027	155.562	158.323	159.288	151.769	-	1,503.640
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	382.311	117.397	227.963	151.027	0.000	151.027	155.562	158.323	159.288	151.769	-	1,503.640
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	382.311	117.397	227.963	151.027	0.000	151.027	155.562	158.323	159.288	151.769	-	1,503.640

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	1.123	6.574	10.525	3.494	-	3.494	-	-	-	-	-	21.716
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Funds the retrofit of fielded CV-22 aircraft, flight training systems, and systems integration laboratories to the Block C/20 configuration. Modifications encompass numerous engineering change proposals (ECP) that have, or will be placed on contract to address a variety of CV-22 weapon system requirements. Additionally, these funds implement production kits and other equipment resulting from related RDT&E projects in the CV-22 Block C/20 program, including nacelle modifications and enhanced self-deployment capabilities.

The Block C/20 modification program improves readiness, operational safety, suitability, and effectiveness, corrects deficiencies identified during operational testing and/or field operations, improves aircraft reliability/maintainability, enhances the aircraft's self-deployment capability, enables unrestricted access to worldwide airspace, and enhances the effectiveness of defensive aircraft survivability systems. Whenever possible, ECPs/kits are installed in blocks to minimize aircraft down time and maximize efficiency. Some ECPs/kits are being incorporated on aircraft as they progress through the production line. Individual P-3As indicate which modifications are implemented at the Contract Field Team (CFT) or Organizational/Intermediate levels. Installation schedules reflect only CFT installs.

Funds also modify and retrofit systems experiencing obsolescing and/or diminishing manufacturing source (DMS) issues, aircraft support equipment, training devices, flight simulators, flight test support, and software. Funding for DMS, flight test support, and software is included in the nonrecurring engineering cost category.

The CV-22 Capability Production Document was approved in Sep 2010.

Milestone/Development Status

Airframe Enhancements: Improvement of airframe structures, aircraft electro-mechanical hardware, and dynamic components to counteract the effects of structural fatigue and improve the durability and readiness of V-22 aircraft. Design, development, and testing of redesign support or loadbearing airframe elements to provide structural reinforcement and improved longevity. Enhanced armor protective performance with reduced weight and space impacts are a possible area for development. Airframe Enhancement funds also provide for refinements of hydraulic, landing gear, or fuel system component to improve and protect their performance. Items such as pumps, lines, tanks/reservoirs/bladders and/or struts may receive enhancements to extend their life and improve their maintainability. Finally, Airframe Enhancements explores improvements to all V-22 dynamic components, from rotor blades and heads to gearboxes and flight control surfaces with the goals of protecting them from vibrational and frictional wear and enhancing their reliability and readiness.

Enhanced Self-Deployment: Capabilities include improved ice protection, engine performance, navigation, communications, battle space awareness and networking/airborne mission networking; electronic warfare; weapons systems; defensive avionics systems and architecture; weight reduction initiatives; modular avionics/cyber security implementation; and changes to the underlying aircraft systems necessary to enable these capabilities.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: V02200 / CV-22 Mods					Modification Number / Title: 8791 / Block 20 V2			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
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: Capability													
A Kits													
Recurring													
Capability:INSTALL KITS Group A (Active)	- / -	48 / 5.468	23 / 2.288	- / -	- / -	- / -	26 / 10.652	24 / 10.652	24 / 10.652	26 / 11.052	- / -	171 / 50.764	
Subtotal: Recurring	- / -	- / 5.468	- / 2.288	- / -	- / -	- / -	- / 10.652	- / 10.652	- / 10.652	- / 11.052	- / -	- / 50.764	
B Kits													
Recurring													
Capability:EQUIPMENT Group B (Active)	- / -	114 / 9.560	47 / 4.282	68 / 10.161	- / -	68 / 10.161	174 / 56.843	146 / 46.968	118 / 43.466	86 / 30.644	- / -	753 / 201.924	
Subtotal: Recurring	- / -	- / 9.560	- / 4.282	- / 10.161	- / -	- / 10.161	- / 56.843	- / 46.968	- / 43.466	- / 30.644	- / -	- / 201.924	
Subtotal: Capability	- / -	- / 15.028	- / 6.570	- / 10.161	- / -	- / 10.161	- / 67.495	- / 57.620	- / 54.118	- / 41.696	- / -	- / 252.688	
Modification Item 2 of 3: Reliability													
A Kits													
Recurring													
Reliability:INSTALL KITS Group A (Active)	- / -	15 / 49.571	29 / 138.282	12 / 57.220	- / -	12 / 57.220	- / -	- / -	- / -	- / -	- / -	56 / 245.073	
Subtotal: Recurring	- / -	- / 49.571	- / 138.282	- / 57.220	- / -	- / 57.220	- / -	- / -	- / -	- / -	- / -	- / 245.073	
B Kits													
Recurring													
Reliability:EQUIPMENT Group B (Active)	- / -	55 / 1.126	148 / 10.452	201 / 17.344	- / -	201 / 17.344	102 / 18.284	94 / 15.207	107 / 43.785	97 / 54.831	- / -	804 / 161.029	
Subtotal: Recurring	- / -	- / 1.126	- / 10.452	- / 17.344	- / -	- / 17.344	- / 18.284	- / 15.207	- / 43.785	- / 54.831	- / -	- / 161.029	
Subtotal: Reliability	- / -	- / 50.697	- / 148.734	- / 74.564	- / -	- / 74.564	- / 18.284	- / 15.207	- / 43.785	- / 54.831	- / -	- / 406.102	
Modification Item 3 of 3: Survivability													
A Kits													
Recurring													
Survivability:INSTALL KITS Group A (Active)	- / -	15 / 14.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 14.750	
Subtotal: Recurring	- / -	- / 14.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.750	
B Kits													
Recurring													
Survivability:EQUIPMENT Group B (Active)	- / -	- / -	5 / 4.000	8 / 6.400	- / -	8 / 6.400	14 / 11.200	16 / 12.800	8 / 6.400	- / -	- / -	51 / 40.800	
Subtotal: Recurring	- / -	- / -	- / 4.000	- / 6.400	- / -	- / 6.400	- / 11.200	- / 12.800	- / 6.400	- / -	- / -	- / 40.800	
Subtotal: Survivability	- / -	- / 14.750	- / 4.000	- / 6.400	- / -	- / 6.400	- / 11.200	- / 12.800	- / 6.400	- / -	- / -	- / 55.550	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: V02200 / CV-22 Mods				Modification Number / Title: 8791 / Block 20 V2				
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:						
Models of Systems Affected: CV-22			Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 80.475	- / 159.304	- / 91.125	- / -	- / 91.125	- / 96.979	- / 85.627	- / 104.303	- / 96.527	- / -	- / 714.340
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 218.523	- / 9.711	- / 16.975	- / 13.619	- / -	- / 13.619	- / 12.113	- / 19.418	- / 15.808	- / 16.817	- / -	- / 322.984
PSC - Contractor Services	- / 38.979	- / 2.000	- / 7.500	- / 6.455	- / -	- / 6.455	- / 6.209	- / 9.008	- / 6.782	- / 8.000	- / -	- / 84.933
Mod of Spares	- / 3.456	- / 0.500	- / 4.200	- / 2.225	- / -	- / 2.225	- / 1.075	- / 2.578	- / 1.500	- / 1.500	- / -	- / 17.034
Data	- / 16.050	- / 7.446	- / 6.660	- / 6.159	- / -	- / 6.159	- / 6.288	- / 13.943	- / 9.406	- / 11.655	- / -	- / 77.607
SIM/TRAINER	34 / 42.473	5 / 1.500	5 / 3.000	5 / 3.268	- / -	5 / 3.268	5 / 3.000	5 / 3.000	5 / 3.000	- / 3.000	- / -	64 / 62.241
SUPPORT-EQUIP	- / 18.892	- / 8.331	- / 9.249	- / 8.459	- / -	- / 8.459	- / 7.671	- / 12.500	- / 9.000	- / 9.000	- / -	- / 83.102
OTHER GOVT	- / 43.938	- / 1.000	- / 5.950	- / 4.742	- / -	- / 4.742	- / 3.018	- / 5.000	- / 3.000	- / 3.000	- / -	- / 69.648
<i>Subtotal: Support</i>	34 / 382.311	5 / 30.488	5 / 53.534	5 / 44.927	- / -	5 / 44.927	5 / 39.374	5 / 65.447	5 / 48.496	- / 52.972	- / -	64 / 717.549
Installation												
Modification Item 1 of 3: Capability	- / -	48 / 3.758	10 / 4.251	13 / 4.191	- / -	13 / 4.191	26 / 19.209	24 / 7.249	24 / 6.489	26 / 2.270	- / -	171 / 47.417
Modification Item 2 of 3: Reliability	- / -	15 / 2.676	29 / 5.678	12 / 10.784	- / -	12 / 10.784	- / -	- / -	- / -	- / -	- / -	56 / 19.138
Modification Item 3 of 3: Survivability	- / -	- / -	15 / 5.196	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 5.196
<i>Subtotal: Installation</i>	- / -	63 / 6.434	54 / 15.125	25 / 14.975	- / -	25 / 14.975	26 / 19.209	24 / 7.249	24 / 6.489	26 / 2.270	- / -	242 / 71.751
Total												
Total Cost (Procurement + Support + Installation)	382.311	117.397	227.963	151.027	0.000	151.027	155.562	158.323	159.288	151.769	-	1,503.640

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 **P-1 Line Item Number / Title:** V02200 / CV-22 Mods **Modification Number / Title:** 8791 / Block 20 V2

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

Modification Item 1 of 3: Capability

Manufacturer Information

Manufacturer Name: Various Manufacturer Location: Various

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 7

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

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	48 / 3.758	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 3.758
FY 2022	- / -	- / -	10 / 4.251	13 / 4.191	- / -	13 / 4.191	- / -	- / -	- / -	- / -	- / -	23 / 8.442
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	26 / 19.209	- / -	- / -	- / -	- / -	26 / 19.209
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 7.249	- / -	- / -	- / -	24 / 7.249
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 6.489	- / -	- / -	24 / 6.489
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 2.270	- / -	26 / 2.270
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	48 / 3.758	10 / 4.251	13 / 4.191	- / -	13 / 4.191	26 / 19.209	24 / 7.249	24 / 6.489	26 / 2.270	- / -	171 / 47.417

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	0	12	12	12	12	3	3	2	2	3	3	4	3	6	6	6	8	6	6	6	6	6	6	6	6	6	6	6	8	0	171
Out	0	-	12	12	12	12	6	4	6	5	6	7	5	8	6	6	6	6	6	6	6	6	6	6	5	5	-	-	0	171	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 Mods	Modification Number / Title: 8791 / Block 20 V2
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 2 of 3: Reliability

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
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Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 7
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Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Dec 2020	Dec 2021	Dec 2022				
Delivery Dates	Jul 2021	Jul 2022	Jul 2023				

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	15 / 2.676	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.676
FY 2022	- / -	- / -	29 / 5.678	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 5.678
FY 2023	- / -	- / -	- / -	12 / 10.784	- / -	12 / 10.784	- / -	- / -	- / -	- / -	- / -	12 / 10.784
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	15 / 2.676	29 / 5.678	12 / 10.784	- / -	12 / 10.784	- / -	- / -	- / -	- / -	- / -	56 / 19.138

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	0	-	-	7	8	8	8	8	5	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	56	
Out	0	-	-	-	7	8	8	8	8	5	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	56	

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 Mods	Modification Number / Title: 8791 / Block 20 V2
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 3 of 3: Survivability

Manufacturer Information

Manufacturer Name: Various Manufacturer Location: Various

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 7

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

Installation Information

Method of Implementation: Contract Field Team

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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	15 / 5.196	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 5.196
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	15 / 5.196	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 5.196

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	0	-	-	-	-	7	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15
Out	0	-	-	-	-	-	7	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 Mods	Modification Number / Title: 1 / Low Cost Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	23.404	1.999	2.999	1.999	0.000	1.999	1.999	4.999	4.999	4.999	5.997	53.394
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	23.404	1.999	2.999	1.999	0.000	1.999	1.999	4.999	4.999	4.999	5.997	53.394
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	23.404	1.999	2.999	1.999	0.000	1.999	1.999	4.999	4.999	4.999	5.997	53.394

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funds low cost modifications for CV-22 weapon system and training devices that are necessary to maintain operational safety, suitability, and effectiveness.

Milestone/Development Status

N/A

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 **P-1 Line Item Number / Title:** V02200 / CV-22 Mods **Modification Number / Title:** 1 / Low Cost Modifications

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

Models of Systems Affected: CV-22 **Modification Type:** Other **Related RDT&E PEs:** 0401318F

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> LCM												
A Kits												
Recurring												
LCM:INSTALL KITS Group A (Active)	0 / 23.404	- / 1.999	- / 2.999	- / 1.999	- / -	- / 1.999	- / 1.999	- / 4.999	- / 4.999	- / 4.999	- / 5.997	0 / 53.394
<i>Subtotal: Recurring</i>	- / 23.404	- / 1.999	- / 2.999	- / 1.999	- / -	- / 1.999	- / 1.999	- / 4.999	- / 4.999	- / 4.999	- / 5.997	- / 53.394
<i>Subtotal: LCM</i>	- / 23.404	- / 1.999	- / 2.999	- / 1.999	- / -	- / 1.999	- / 1.999	- / 4.999	- / 4.999	- / 4.999	- / 5.997	- / 53.394
<i>Subtotal: Procurement, All Modification Items</i>	- / 23.404	- / 1.999	- / 2.999	- / 1.999	- / -	- / 1.999	- / 1.999	- / 4.999	- / 4.999	- / 4.999	- / 5.997	- / 53.394
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	23.404	1.999	2.999	1.999	0.000	1.999	1.999	4.999	4.999	4.999	5.997	53.394

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: V02200 / CV-22 Mods			Modification Number / Title: 1 / Low Cost Modifications	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 1: LCM							
Manufacturer Information							
Manufacturer Name: Bell-Boeing				Manufacturer Location: Amarillo TX			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
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): Org/Intermediate					Installation Quantity: 0		

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