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**Department of Defense  
Fiscal Year (FY) 2022 Budget Estimates**

May 2021



**Air Force**

*Justification Book Volume 1 of 2*

***Aircraft Procurement, Air Force***

**Vol-1**

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Air Force • Budget Estimates FY 2022 • Procurement

**Volume 1 Table of Contents**

**Introduction and Explanation of Contents.....Volume 1 - iii**  
**Comptroller Exhibit P-1.....Volume 1 - v**  
**Master Line Item Table of Contents (by Appropriation then Line Number).....Volume 1 - xv**  
**Master Line Item Table of Contents (Alphabetically by Line Item Title).....Volume 1 - xxiii**  
**Acronyms..... Volume 1 - xxix**  
**Exhibit P-40s..... Volume 1 - 1**

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Appropriation Language  
Fiscal Year (FY) 2022 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, \$15,727,669,000 to remain available for obligations until September 30, 2024.

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Exhibit footnotes for FY 2020 actuals and FY 2021 Enacted:

- a. FY 2020 Actuals: **“Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136).”**
- b. FY 2021 Enacted (for every appropriation except O&M, Army, O&M, Navy, and O&M, AF): **“Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260).”**
- c. FY 2021 Enacted (for O&M, Army, O&M, Navy, and O&M, AF): “Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260) and funds provided by the Congress as OCO to Base Requirements in O&M Army, O&M Navy, and O&M AF.”

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

05 May 2021

Appropriation -----	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request
-----	-----	-----	-----
Aircraft Procurement, Air Force	17,550,262	19,985,491	15,727,669
Missile Procurement, Air Force	2,777,558	2,365,953	2,669,811
Space Procurement, Air Force	2,353,383		
Procurement of Ammunition, Air Force	2,535,419	1,336,461	795,168
Procurement, Space Force		2,310,994	2,766,854
Other Procurement, Air Force	25,199,603	23,796,987	25,251,137
Total Department of the Air Force	50,416,225	49,795,886	47,210,639

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

05 May 2021

## Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request
01. Combat Aircraft	6,524,659	7,584,746	5,963,085
02. Airlift Aircraft	3,407,498	3,847,537	2,729,260
03. Trainer Aircraft			10,397
04. Other Aircraft	1,616,357	2,209,274	1,038,926
05. Modification of Inservice Aircraft	3,491,587	3,756,095	3,788,775
06. Aircraft Spares and Repair Parts	763,680	930,899	923,573
07. Aircraft Supt Equipment & Facilities	1,746,481	1,656,940	1,273,653
Total Aircraft Procurement, Air Force	17,550,262	19,985,491	15,727,669



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

05 May 2021

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft									
-----									
Strategic Offensive									
1	B-21 Raider Advance Procurement (CY) C (FY 2022 for FY 2023) (M)							108,027 (108,027)	U
Tactical Forces									
2	F-35 Less: Advance Procurement (PY)	A	62	(5,826,259) (-578,200)	60	(6,177,299) (-570,500)	48	(4,714,804) (-547,200)	U
				5,248,059		5,606,799		4,167,604	
3	F-35 Advance Procurement (CY) C (FY 2020 for FY 2021) (M) C (FY 2020 for FY 2022) (M) C (FY 2021 for FY 2022) (M) C (FY 2021 for FY 2023) (M) C (FY 2022 for FY 2023) (M)			655,500 (570,500) (85,000)		610,800 (462,200) (148,600)		352,632  (352,632)	U
4	F-15e	A	6	621,100	6				U
5	F-15EX Less: Advance Procurement (PY)	A			12	(1,233,647)	12	(1,320,403) (-133,500)	U
						1,233,647		1,186,903	
6	F-15EX Advance Procurement (CY) C (FY 2021 for FY 2022) (M) C (FY 2022 for FY 2023) (M)					133,500 (133,500)		147,919 (147,919)	U
Total Combat Aircraft				6,524,659		7,584,746		5,963,085	

UNCLASSIFIED

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

05 May 2021

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Airlift Aircraft									
-----									
Tactical Airlift									
7	KC-46A MDAP	A	12	2,139,705	15	2,665,299	14	2,380,315	U
Other Airlift									
8	C-130J	A	4	377,156	8	797,131	1	128,896	U
9	MC-130J	A	8	(976,714)	4	(411,107)	3	(266,049)	U
	Less: Advance Procurement (PY)			(-126,077)		(-56,000)		(-46,000)	U
				-----		-----		-----	
				850,637		355,107		220,049	
10	MC-130J								
	Advance Procurement (CY)			40,000		30,000			U
	C (FY 2020 for FY 2021) (M)			(40,000)					
	C (FY 2021 for FY 2022) (M)					(30,000)			
				-----		-----		-----	
Total Airlift Aircraft				3,407,498		3,847,537		2,729,260	
Budget Activity 03: Trainer Aircraft									
-----									
UPT Trainers									
11	Advanced Trainer Replacement T-X	A						10,397	U
				-----		-----		-----	
Total Trainer Aircraft								10,397	
Budget Activity 04: Other Aircraft									
-----									
Helicopters									
12	MH-139A	A			8	194,016			U
13	Combat Rescue Helicopter	A	12	850,535	19	1,083,909	14	792,221	U
14	CV-22 Osprey	A			2	206,220			U

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 5, 2021 at 14:47:22

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

05 May 2021

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Mission Support Aircraft									
15	C-37A	A	2	159,140					U
16	Civil Air Patrol A/C	A	4	11,000		11,200		2,813	U
Other Aircraft									
17	Target Drones	A	35	130,837	38	133,273	22	116,169	U
18	Compass Call	A	1	114,095		159,867			U
19	E-11 BACN/HAG	A				63,419	2	124,435	U
20	Observation Attack Replacement (OA-X)	A		30,000					U
21	MQ-9	A	24	308,600	16	343,600		3,288	U
22	RQ-20B Puma	A	18	12,150	20	13,770			U
Total Other Aircraft				1,616,357		2,209,274		1,038,926	
Budget Activity 05: Modification of Inservice Aircraft									
Strategic Aircraft									
23	B-2A	A		9,582		30,819		29,944	U
24	B-1B	A		12,659		21,808		30,518	U
25	B-52	A		41,433		27,279		74,957	U
26	Combat Rescue Helicopter	A						61,191	U
27	Large Aircraft Infrared Countermeasures	A		97,093		56,320		57,001	U
Tactical Aircraft									
28	A-10	A		125,788		135,793		83,621	U
29	E-11 BACN/HAG	A		68,027		29,645		68,955	U

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 5, 2021 at 14:47:22

## UNCLASSIFIED

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

05 May 2021

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	F-15	A		441,091		203,910		234,340	U
31	F-16	A		252,109		622,593		613,166	U
32	F-22A	A		189,047		357,586		424,722	U
33	F-35 Modifications	A		329,590		295,832		304,135	U
34	F-15 EPAW	A		125,417			18	149,797	U
35	Increment 3.2b	A		20,213		5,889			U
36	KC-46A MDAP	A		5,213		4,085		1,984	U
Airlift Aircraft									
37	C-5	A		56,326		50,279		25,431	U
38	C-17A	A		55,916		44,798		59,570	U
39	C-21	A		216					U
40	C-32A	A		11,511		2,947		1,949	U
41	C-37A	A		435		12,985		5,984	U
Trainer Aircraft									
42	Glider Mods	A		138		977		142	U
43	T-6	A		11,826		23,929		8,735	U
44	T-1	A		19,147		4,465		3,872	U
45	T-38	A		37,341		40,806		49,851	U
Other Aircraft									
46	U-2 Mods			58,563		120,218		126,809	U
47	KC-10A (ATCA)	A		2,108		117		1,902	U

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 5, 2021 at 14:47:22

UNCLASSIFIED

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

05 May 2021

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
48	C-12	A		3,021					U
49	VC-25A Mod	A		48,624		1,983		96	U
50	C-40	A		256		7,252		262	U
51	C-130	A		186,066		265,580		29,071	U
52	C-130J Mods	A		122,302		136,632		110,784	U
53	C-135	A		113,351		82,350		61,376	U
54	Compass Call	A		110,539		180,983		195,098	U
55	combat flight inspection - CFIN	A		508					U
56	RC-135	A		227,673		191,332		207,596	U
57	E-3	A		102,092		118,068		109,855	U
58	E-4	A		52,977		44,140		19,081	U
59	E-8	A		48,778		22,037		16,312	U
60	Airborne Warning and Cntrl Sys (AWACS) 40/45	A		32,821		53,343		30,327	U
61	Family of Beyond Line-of-Sight Terminals	A		7,910		1,573			U
62	H-1	A		3,817		4,410		1,533	U
63	H-60	A		26,879		34,728		13,709	U
64	RQ-4 Mods	A		1,704		3,350		3,205	U
65	HC/MC-130 Modifications	A		41,820		76,573		150,263	U
66	Other Aircraft	A		50,098		100,774		54,828	U
67	MQ-9 Mods	A		254,414		155,011		144,287	U
68	MQ-9 UAS Payloads	A		19,800		63,500		40,800	U

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 5, 2021 at 14:47:22

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Department of the Air Force  
 FY 2022 President's Budget  
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 Total Obligational Authority  
 (Dollars in Thousands)

05 May 2021

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
69	Senior Leader C3, System - Aircraft	A					23,554		U
70	CV-22 Mods	A		65,348		119,396	158,162		U
Total Modification of Inservice Aircraft				3,491,587		3,756,095	3,788,775		
Budget Activity 06: Aircraft Spares and Repair Parts									
-----									
Aircraft Spares and Repair Parts									
71	Initial Spares/Repair Parts	A		763,680		930,899	923,573		U
Total Aircraft Spares and Repair Parts				763,680		930,899	923,573		
Budget Activity 07: Aircraft Supt Equipment & Facilities									
-----									
Common Support Equipment									
72	Aircraft Replacement Support Equip	A		93,212		149,483	138,761		U
Post Production Support									
73	B-2A	A		1,403		1,683	1,651		U
74	B-2B	A		28,900		37,310	38,811		U
75	B-52	A		2,341		1,034	5,602		U
76	C-17A	A		132,634					U
77	RC-135	A		170,075					U
78	F-15	A		2,589		2,632	2,324		U
79	F-16	A		11,402		14,163	10,456		U
80	Other Aircraft	A				4,595			U
81	RQ-4 Post Production Charges	A		47,246		1,750	24,592		U

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 5, 2021 at 14:47:22

## UNCLASSIFIED

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

05 May 2021

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Industrial Preparedness									
82	Industrial Responsiveness	A		17,705		18,215		18,110	U
War Consumables									
83	War Consumables	A		32,102		32,046		35,866	U
Other Production Charges									
84	Other Production Charges	A		1,173,314		1,372,337		979,388	U
86	Spectrum Relocation Fund	A		-618					U
999	Classified Programs			34,176		21,692		18,092	U
Total Aircraft Supt Equipment & Facilities				1,746,481		1,656,940		1,273,653	
Total Aircraft Procurement, Air Force				17,550,262		19,985,491		15,727,669	

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Air Force • Budget Estimates FY 2022 • Procurement

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

***Appropriation 3010F: Aircraft Procurement, Air Force***

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
1	01	01	B02100	B-21 Raider, Advance Procurement.....	Volume 1 - 1
2	01	03	ATA000	F-35.....	Volume 1 - 5
3	01	03	ATA000	F-35, Advance Procurement.....	Volume 1 - 17
4	01	03	F015E0	F-15e.....	Volume 1 - 21
5	01	03	F015EX	F-15EX.....	Volume 1 - 23
6	01	03	F015EX	F-15EX, Advance Procurement.....	Volume 1 - 33

***Appropriation 3010F: Aircraft Procurement, Air Force***

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
7	02	02	KC046A	KC-46A MDAP.....	Volume 1 - 37
8	02	03	C130J0	C-130J.....	Volume 1 - 51
9	02	03	C130JM	MC-130J.....	Volume 1 - 55
10	02	03	C130JM	MC-130J, Advance Procurement.....	Volume 1 - 67

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Air Force • Budget Estimates FY 2022 • Procurement

***Appropriation 3010F: Aircraft Procurement, Air Force***

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
11	03	01	APT000	Advanced Trainer Replacement T-X.....	Volume 1 - 71

***Appropriation 3010F: Aircraft Procurement, Air Force***

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
12	04	01	H0106O	MH-139A.....	Volume 1 - 75
13	04	01	H060WH	HH-60W.....	Volume 1 - 79
14	04	01	V022A0	CV-22 (MYP).....	Volume 1 - 91
15	04	04	C03700	C-37A.....	Volume 1 - 101
16	04	04	CAPAC0	Civil Air Patrol A/C.....	Volume 1 - 103
17	04	05	10TRGT	Target Drones.....	Volume 1 - 105
18	04	05	CALL00	Compass Call.....	Volume 1 - 125
19	04	05	E011A1	E-11 BACN/HAG.....	Volume 1 - 127
20	04	05	OAX000	Observation Attack Replacement (OA-X).....	Volume 1 - 131
21	04	05	PRDTB1	MQ-9.....	Volume 1 - 133

**UNCLASSIFIED**

**UNCLASSIFIED**

Air Force • Budget Estimates FY 2022 • Procurement

***Appropriation 3010F: Aircraft Procurement, Air Force***

Line #	BA	BSA	Line Item Number	Line Item Title	Page
22	04	05	Q020BR	RQ-20B Puma.....	Volume 1 - 139

***Appropriation 3010F: Aircraft Procurement, Air Force***

Line #	BA	BSA	Line Item Number	Line Item Title	Page
23	05	01	B00200	B-2A.....	Volume 2 - 1
24	05	01	B01B00	B-1B.....	Volume 2 - 13
25	05	01	B05200	B-52.....	Volume 2 - 27
26	05	01	H060WH	HH-60W Modifications.....	Volume 2 - 47
27	05	01	LAIRCM	Large Aircraft Infrared Countermeasures.....	Volume 2 - 53
28	05	02	A01000	A-10.....	Volume 2 - 63
29	05	02	E011A0	E-11 BACN/HAG.....	Volume 2 - 83
30	05	02	F01500	F-15.....	Volume 2 - 95
31	05	02	F01600	F-16.....	Volume 2 - 121
32	05	02	F02200	F-22A.....	Volume 2 - 157
33	05	02	F03500	F-35 Modifications.....	Volume 2 - 177
34	05	02	F15EWS	F-15 EPAW.....	Volume 2 - 235

**UNCLASSIFIED**

**UNCLASSIFIED**

Air Force • Budget Estimates FY 2022 • Procurement

***Appropriation 3010F: Aircraft Procurement, Air Force***

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
35	05	02	F2232B	Increment 3.2b.....	Volume 2 - 241
36	05	02	KC046A	KC-46A MDAP.....	Volume 2 - 247
37	05	03	C00500	C-5.....	Volume 2 - 249
38	05	03	C01700	C-17A.....	Volume 2 - 263
39	05	03	C02100	C-21.....	Volume 2 - 275
40	05	03	C03200	C-32A.....	Volume 2 - 277
41	05	03	C03700	C-37A.....	Volume 2 - 279
42	05	04	GLID00	Glider Mods.....	Volume 2 - 285
43	05	04	JPAT00	T-6.....	Volume 2 - 287
44	05	04	T00100	T-1.....	Volume 2 - 289
45	05	04	T03800	T-38.....	Volume 2 - 291
46	05	05	11U200	U-2 Mods.....	Volume 2 - 301
47	05	05	C01000	KC-10A (ATCA).....	Volume 2 - 309
48	05	05	C01200	C-12.....	Volume 2 - 311
49	05	05	C02500	VC-25A Mod.....	Volume 2 - 313
50	05	05	C04000	C-40.....	Volume 2 - 315
51	05	05	C13000	C-130.....	Volume 2 - 317
52	05	05	C1300J	C-130J Mods.....	Volume 2 - 327

**UNCLASSIFIED**

**UNCLASSIFIED**

Air Force • Budget Estimates FY 2022 • Procurement

**Appropriation 3010F: Aircraft Procurement, Air Force**

Line #	BA	BSA	Line Item Number	Line Item Title	Page
53	05	05	C13500	C-135.....	Volume 2 - 339
54	05	05	CALL00	Compass Call.....	Volume 2 - 349
55	05	05	CFIN00	combat flight inspection - CFIN.....	Volume 2 - 357
56	05	05	DARP01	RC-135.....	Volume 2 - 359
57	05	05	E00300	E-3.....	Volume 2 - 371
58	05	05	E00400	E-4.....	Volume 2 - 389
59	05	05	E00800	E-8.....	Volume 2 - 395
60	05	05	E34045	Airborne Warning and Cntrl Sys (AWACS) 40/45.....	Volume 2 - 405
61	05	05	FBLOST	Family of Beyond Line-of-Sight Terminals.....	Volume 2 - 411
62	05	05	H00100	H-1.....	Volume 2 - 413
63	05	05	H06000	H-60.....	Volume 2 - 415
64	05	05	HAWK00	RQ-4 Mods.....	Volume 2 - 425
65	05	05	HCMC00	HC/MC-130 Modifications.....	Volume 2 - 453
66	05	05	OTHACF	Other Aircraft.....	Volume 2 - 503
67	05	05	PRDTB2	MQ-9 Mods.....	Volume 2 - 511
68	05	05	PRDTB3	MQ-9 UAS Payloads.....	Volume 2 - 541
69	05	05	SLC3SA	Senior Leader C3, System - Aircraft.....	Volume 2 - 547
70	05	05	V02200	CV-22 Mods.....	Volume 2 - 555

**UNCLASSIFIED**

**UNCLASSIFIED**

Air Force • Budget Estimates FY 2022 • Procurement

***Appropriation 3010F: Aircraft Procurement, Air Force***

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
71	06	10	000999	Initial Spares/Repair Parts.....	Volume 1 - 141

***Appropriation 3010F: Aircraft Procurement, Air Force***

---

<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
72	07	01	000071	Aircraft Replacement Support Equip.....	Volume 1 - 149
73	07	02	B00200	B-2A.....	Volume 1 - 191
74	07	02	B002B0	B-2B.....	Volume 1 - 193
75	07	02	B05200	B-52.....	Volume 1 - 197
76	07	02	C01700	C-17A.....	Volume 1 - 201
77	07	02	DARP01	RC-135.....	Volume 1 - 203
79	07	02	F01500	F-15.....	Volume 1 - 205
80	07	02	F0160P	F-16.....	Volume 1 - 207
81	07	02	OTHACF	Other Aircraft.....	Volume 1 - 211
82	07	02	RQ4DIS	RQ-4 Post Production Charges.....	Volume 1 - 213

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Air Force • Budget Estimates FY 2022 • Procurement

***Appropriation 3010F: Aircraft Procurement, Air Force***

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<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
83	07	03	000073	Industrial Responsiveness.....	Volume 1 - 219
84	07	04	000074	War Consumables.....	Volume 1 - 223
85	07	05	000075	Other Production Charges.....	Volume 1 - 227
87	07	05	11SPEC	Military Personnel Management.....	Volume 1 - 247

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Air Force • Budget Estimates FY 2022 • Procurement

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

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
A-10	A01000	28	05	02.....	Volume 2 - 63
Advanced Trainer Replacement T-X	APT000	11	03	01.....	Volume 1 - 71
Airborne Warning and Cntrl Sys (AWACS) 40/45	E34045	60	05	05.....	Volume 2 - 405
Aircraft Replacement Support Equip	000071	72	07	01.....	Volume 1 - 149
B-1B	B01B00	24	05	01.....	Volume 2 - 13
B-21 Raider, Advance Procurement	B02100	1	01	01.....	Volume 1 - 1
B-2A	B00200	73	07	02.....	Volume 1 - 191
B-2A	B00200	23	05	01.....	Volume 2 - 1
B-2B	B002B0	74	07	02.....	Volume 1 - 193
B-52	B05200	75	07	02.....	Volume 1 - 197
B-52	B05200	25	05	01.....	Volume 2 - 27
C-12	C01200	48	05	05.....	Volume 2 - 311
C-130	C13000	51	05	05.....	Volume 2 - 317
C-130J	C130J0	8	02	03.....	Volume 1 - 51
C-130J Mods	C1300J	52	05	05.....	Volume 2 - 327
C-135	C13500	53	05	05.....	Volume 2 - 339
C-17A	C01700	76	07	02.....	Volume 1 - 201

**UNCLASSIFIED**

**UNCLASSIFIED**

Air Force • Budget Estimates FY 2022 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
C-17A	C01700	38	05	03.....	Volume 2 - 263
C-21	C02100	39	05	03.....	Volume 2 - 275
C-32A	C03200	40	05	03.....	Volume 2 - 277
C-37A	C03700	15	04	04.....	Volume 1 - 101
C-37A	C03700	41	05	03.....	Volume 2 - 279
C-40	C04000	50	05	05.....	Volume 2 - 315
C-5	C00500	37	05	03.....	Volume 2 - 249
CV-22 (MYP)	V022A0	14	04	01.....	Volume 1 - 91
CV-22 Mods	V02200	70	05	05.....	Volume 2 - 555
Civil Air Patrol A/C	CAPAC0	16	04	04.....	Volume 1 - 103
Compass Call	CALL00	18	04	05.....	Volume 1 - 125
Compass Call	CALL00	54	05	05.....	Volume 2 - 349
E-11 BACN/HAG	E011A1	19	04	05.....	Volume 1 - 127
E-11 BACN/HAG	E011A0	29	05	02.....	Volume 2 - 83
E-3	E00300	57	05	05.....	Volume 2 - 371
E-4	E00400	58	05	05.....	Volume 2 - 389
E-8	E00800	59	05	05.....	Volume 2 - 395
F-15	F01500	79	07	02.....	Volume 1 - 205
F-15	F01500	30	05	02.....	Volume 2 - 95
F-15 EPAW	F15EWS	34	05	02.....	Volume 2 - 235

**UNCLASSIFIED**

**UNCLASSIFIED**

Air Force • Budget Estimates FY 2022 • Procurement

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
F-15EX	F015EX	5	01	03.....	Volume 1 - 23
F-15EX, Advance Procurement	F015EX	6	01	03.....	Volume 1 - 33
F-15e	F015E0	4	01	03.....	Volume 1 - 21
F-16	F0160P	80	07	02.....	Volume 1 - 207
F-16	F01600	31	05	02.....	Volume 2 - 121
F-22A	F02200	32	05	02.....	Volume 2 - 157
F-35	ATA000	2	01	03.....	Volume 1 - 5
F-35, Advance Procurement	ATA000	3	01	03.....	Volume 1 - 17
F-35 Modifications	F03500	33	05	02.....	Volume 2 - 177
Family of Beyond Line-of-Sight Terminals	FBLOST	61	05	05.....	Volume 2 - 411
Glider Mods	GLID00	42	05	04.....	Volume 2 - 285
H-1	H00100	62	05	05.....	Volume 2 - 413
H-60	H06000	63	05	05.....	Volume 2 - 415
HC/MC-130 Modifications	HCMC00	65	05	05.....	Volume 2 - 453
HH-60W	H060WH	13	04	01.....	Volume 1 - 79
HH-60W Modifications	H060WH	26	05	01.....	Volume 2 - 47
Increment 3.2b	F2232B	35	05	02.....	Volume 2 - 241
Industrial Responsiveness	000073	83	07	03.....	Volume 1 - 219
Initial Spares/Repair Parts	000999	71	06	10.....	Volume 1 - 141
KC-10A (ATCA)	C01000	47	05	05.....	Volume 2 - 309

**UNCLASSIFIED**

**UNCLASSIFIED**

Air Force • Budget Estimates FY 2022 • Procurement

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
KC-46A MDAP	KC046A	7	02	02.....	Volume 1 - 37
KC-46A MDAP	KC046A	36	05	02.....	Volume 2 - 247
Large Aircraft Infrared Countermeasures	LAIRCM	27	05	01.....	Volume 2 - 53
MC-130J	C130JM	9	02	03.....	Volume 1 - 55
MC-130J, Advance Procurement	C130JM	10	02	03.....	Volume 1 - 67
MH-139A	H0106O	12	04	01.....	Volume 1 - 75
MQ-9	PRDTB1	21	04	05.....	Volume 1 - 133
MQ-9 Mods	PRDTB2	67	05	05.....	Volume 2 - 511
MQ-9 UAS Payloads	PRDTB3	68	05	05.....	Volume 2 - 541
Military Personnel Management	11SPEC	87	07	05.....	Volume 1 - 247
Observation Attack Replacement (OA-X)	OAX000	20	04	05.....	Volume 1 - 131
Other Aircraft	OTHACF	81	07	02.....	Volume 1 - 211
Other Aircraft	OTHACF	66	05	05.....	Volume 2 - 503
Other Production Charges	000075	85	07	05.....	Volume 1 - 227
RC-135	DARP01	77	07	02.....	Volume 1 - 203
RC-135	DARP01	56	05	05.....	Volume 2 - 359
RQ-20B Puma	Q020BR	22	04	05.....	Volume 1 - 139
RQ-4 Mods	HAWK00	64	05	05.....	Volume 2 - 425
RQ-4 Post Production Charges	RQ4DIS	82	07	02.....	Volume 1 - 213
Senior Leader C3, System - Aircraft	SLC3SA	69	05	05.....	Volume 2 - 547

**UNCLASSIFIED**

**UNCLASSIFIED**

Air Force • Budget Estimates FY 2022 • Procurement

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
T-1	T00100	44	05	04.....	Volume 2 - 289
T-38	T03800	45	05	04.....	Volume 2 - 291
T-6	JPAT00	43	05	04.....	Volume 2 - 287
Target Drones	10TRGT	17	04	05.....	Volume 1 - 105
U-2 Mods	11U200	46	05	05.....	Volume 2 - 301
VC-25A Mod	C02500	49	05	05.....	Volume 2 - 313
War Consumables	000074	84	07	04.....	Volume 1 - 223
combat flight inspection - CFIN	CFIN00	55	05	05.....	Volume 2 - 357

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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
EWAIISP	- 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	- Undefinitized 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 AFB, 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 AFB, 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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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2022 Air Force							<b>Date:</b> May 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 1: Strategic Offensive							<b>P-1 Line Item Number / Title:</b> B02100 / B-21 Raider					
<b>Program Elements for Code B Items:</b> N/A							<b>Other Related Program Elements:</b> N/A					

**Line Item MDAP/MAIS Code:** 437

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>To Complete</b>	<b>Total</b>
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	108.027	-	108.027	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	-	108.027	-	108.027	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	-	<b>108.027</b>	-	<b>108.027</b>	-	-	-	-	-	-

**Description:**

This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. For further information, please contact the Director of Special Programs, OUSD(A&S)/DSP.

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**Exhibit P-40, Advance Procurement Budget Line Item Justification:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 1: Strategic Offensive	<b>P-1 Line Item Number / Title:</b> B02100 / B-21 Raider
---	--

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

**Line Item MDAP/MAIS Code:** 437

Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	B-21 Raider			- / -	- / -	- / -	- / 108.027	- / -	- / 108.027
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			- / -	- / -	- / -	- / 108.027	- / -	- / 108.027

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

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

**Justification:**  
 This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. For further information, please contact the Director of Special Programs, OUSD(A&S)/DSP.

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2022 Air Force					<b>Date:</b> May 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 1		<b>P-1 Line Item Number / Title:</b> B02100 / B-21 Raider			<b>Item Number / Title:</b> B-21 Raider	
<b>First System (2022) Award Date:</b>		<b>First System (2022) Completion Date:</b>		<b>Interval Between Systems:</b> Months		
<b>B-21 Raider</b>		<b>Production Leadtime</b> <i>(Months)</i>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2020</b> <i>(Each)</i>	<b>FY 2021</b> <i>(Each)</i>	<b>FY 2022</b> <i>(Each)</i>
Quantity			-	-	-	-
<b>Cost Elements</b>		<b>When Required</b> <i>(Months)</i>	<b>Prior Years</b> <i>(\$ M)</i>	<b>FY 2020</b> <i>(\$ M)</i>	<b>FY 2021</b> <i>(\$ M)</i>	<b>FY 2022</b> <i>(\$ M)</i>
<b>Other</b>						
B-21 Raider		-	-	-	-	108.027
<i>Total: Other</i>			-	-	-	108.027
<b>Total Advance Procurement/Obligation Authority</b>			-	-	-	<b>108.027</b>

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification):</b> PB 2022 Air Force						<b>Date:</b> May 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 1		<b>P-1 Line Item Number / Title:</b> B02100 / B-21 Raider				<b>Item Number / Title:</b> B-21 Raider	
		<b>FY 2022</b>					
<b>Cost Elements</b>	<b>QPA (Each)</b>	<b>Production Leadtime (Months)</b>	<b>Unit Cost (\$ M)</b>	<b>Contract Forecast Date</b>	<b>2022 Qty (Each)</b>	<b>For FY</b>	<b>Total Cost Request (\$ M)</b>
<b>Other</b>							
B-21 Raider	-						108.027
<i>Total: Other</i>							108.027
<b>Total Advance Procurement/Obligation Authority</b>							<b>108.027</b>

**Description:**  
 This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. For further information, please contact the Director of Special Programs, OUSD(A&S)/DSP.



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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 3: Tactical Forces

**P-1 Line Item Number / Title:**  
ATA000 / F-35

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604800F

**Line Item MDAP/MAIS Code:** 198

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	338	62	60	48	-	48	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	44,860.449	5,826.259	6,177.299	4,714.804	-	4,714.804	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	4,334.793	578.200	570.500	547.200	-	547.200	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	40,525.656	5,248.059	5,606.799	4,167.604	-	4,167.604	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	4,959.993	655.500	610.800	352.632	-	352.632	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>45,485.649</b>	<b>5,903.559</b>	<b>6,217.599</b>	<b>4,520.236</b>	-	<b>4,520.236</b>	-	-	-	-	-	-

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

Initial Spares ( <i>\$ in Millions</i> )	2,580.305	401.080	304.289	267.667	-	267.667	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	118.969	86.088	86.696	85.823	-	85.823	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	132.723	93.972	102.955	98.225	-	98.225	-	-	-	-	-	-

**Description:**

Joint Strike Fighter (JSF) program will enhance and field a family of aircraft that meets the needs of DoD and allies with three air vehicle variants including: the F-35A Conventional Take Off and Landing (CTOL) variant, the F-35B Short Take-Off and Vertical Landing (STOVL) variant, and the F-35C Carrier Variant (CV) delivery commonality among the three variants to minimize life cycle costs. This is a joint program with no executive service. Service Acquisition Executive (SAE) authority alternates between the Department of the Navy (DON) and the Department of the Air Force (DAF) and currently resides with the Navy. The F-35s are the next generation of strike fighters and provide increased aero-performance, stealth signature and countermeasures. Its advanced avionics, data links and adverse weather precision targeting incorporates the latest technology available. The F-35 has increased range with internal fuel and can employ superior weaponry over existing aircraft. The highly supportable, affordable, state of the art aircraft commands and maintains global air superiority. The production cost and quantities are interdependent due to sole source air vehicle and propulsion contracts. USAF regular procurement commenced in FY2007, DON regular procurement commenced in FY2008.

**Notes:**

(1) Initial Operational Capability (IOC) occurred on 2 August 2016 and Full Rate Production (FRP) will occur after completion and reporting of Initial Operational Test & Evaluation (IOT&E) which is scheduled to complete in 2021.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 3: Tactical Forces **P-1 Line Item Number / Title:** ATA000 / F-35

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604800F

**Line Item MDAP/MAIS Code:** 198

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	F-35	P-5a, P-21	A		338 / 44,860.449	62 / 5,826.259	60 / 6,177.299	48 / 4,714.804	- / -	48 / 4,714.804
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>338 / 44,860.449</b>	<b>62 / 5,826.259</b>	<b>60 / 6,177.299</b>	<b>48 / 4,714.804</b>	<b>- / -</b>	<b>48 / 4,714.804</b>

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

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

**Justification:**  
 BASIS FOR FY2022 BUDGET REQUEST: The FY2022 budget provides funding for 48 F-35A Aircraft and associated non-recurring and ancillary mission equipment to support delivery. The budget request also supports the lead-time procurement and support requirements required for squadron standup and associated training and logistical requirements.

FY2022 Lot 16 continues efforts for production incorporation of hardware to support Block 4 capabilities.

Non-recurring flyaway costs for FY2022 include costs for tooling refurbishment as well as tooling required to support full production capacity for hardware associated with delivering Block 4 capabilities. Non-recurring also includes funding to address diminishing manufacturing sources (DMS) which include costs to manage DMS issues, procurement of bridge or life-of-type buys, and if cost-benefit analysis supports non-recurring engineering to implement DMS redesigns within the performance envelope to the production line. Other non-recurring costs include chase support for government acceptance flights, systems engineering for production line efforts and production readiness reviews to address program risks and cost reduction initiatives.

Support costs in FY2022 include costs that are fixed in nature and do not fluctuate directly with aircraft quantities in a particular year. For the F-35A variant, these costs include peculiar ground support equipment to support squadron and site stand-ups. FY2022 support cost request includes equipment for 2nd squadrons at both Eglin and Lakenheath, a stand-up of Aggressor squadron at Nellis, a standup squadron at Truax and a 5th squadron stand-up at Luke AFB.

The Department is implementing a new strategy to replace the Autonomic Logistics Information System (ALIS) with the F-35 Operational Data Integrated Network (ODIN), a modern F-35 logistics and maintenance system. Hardware being procured is compatible with both ALIS and ODIN software. ODIN software fielding is planned to commence fielding to new squadrons in September 2021.

Depot activation efforts continue in FY2022 increasing repair capacity necessary for long-term sustainment of F-35 aircraft. FY2022 request includes additional special test and support equipment to expand the number of repair docks and Ogden Air Logistics Center and Fleet Readiness Center East. FY2022 also includes funding for propulsion depot standup at numerous U.S. depot locations.

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3	<b>P-1 Line Item Number / Title:</b> ATA000 / F-35	<b>Item Number / Title [DODIC]:</b> F-35

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	338	62	60	48	-	48
Gross/Weapon System Cost (\$ in Millions)	44,860.449	5,826.259	6,177.299	4,714.804	-	4,714.804
Less PY Advance Procurement (\$ in Millions)	4,334.793	578.200	570.500	547.200	-	547.200
Net Procurement (P-1) (\$ in Millions)	40,525.656	5,248.059	5,606.799	4,167.604	-	4,167.604
Plus CY Advance Procurement (\$ in Millions)	4,959.993	655.500	610.800	352.632	-	352.632
<b>Total Obligation Authority (\$ in Millions)</b>	<b>45,485.649</b>	<b>5,903.559</b>	<b>6,217.599</b>	<b>4,520.236</b>	-	<b>4,520.236</b>

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

Initial Spares (\$ in Millions)	2,580.305	401.080	304.289	267.667	-	267.667
Gross/Weapon System Unit Cost (\$ in Millions)	132.723	93.972	102.955	98.225	-	98.225

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)

Flyaway - Flyaway End Item Cost

Recurring Cost																		
Airframe/CFE <sup>(1)</sup>	69.713	338	23,563.023	51.819	62	3,212.794	52.276	60	3,136.585	53.361	48	2,561.343	-	-	-	53.361	48	2,561.343
CFE Electronics	19.997	338	6,759.012	12.437	62	771.083	12.306	60	738.373	12.220	48	586.547	-	-	-	12.220	48	586.547
Engines/Eng ACC <sup>(1)</sup>	13.746	338	4,646.024	12.371	62	767.002	12.488	60	749.290	12.776	48	613.253	-	-	-	12.776	48	613.253
ECO	2.502	338	845.609	1.692	62	104.931	1.541	60	92.485	1.567	48	75.223	-	-	-	1.567	48	75.223
<i>Subtotal: Recurring Cost</i>	-	-	35,813.668	-	-	4,855.810	-	-	4,716.733	-	-	3,836.366	-	-	-	-	-	3,836.366
Non Recurring Cost																		
Non-Recurring Cost	-	-	2,924.022	-	-	185.946	-	-	214.427	-	-	108.545	-	-	-	-	-	108.545
Ancillary Equip	-	-	1,473.798	-	-	295.730	-	-	270.618	-	-	174.603	-	-	-	-	-	174.603
<i>Subtotal: Non Recurring Cost</i>	-	-	4,397.820	-	-	481.676	-	-	485.045	-	-	283.148	-	-	-	-	-	283.148
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	<b>40,211.488</b>	-	-	<b>5,337.486</b>	-	-	<b>5,201.778</b>	-	-	<b>4,119.514</b>	-	-	-	-	-	<b>4,119.514</b>

Support - Support End Item Cost

Airframe PGSE <sup>(1)</sup>	-	-	665.540	-	-	74.721	-	-	182.810	-	-	104.611	-	-	-	-	-	104.611
Engine PGSE <sup>(2)</sup>	-	-	281.179	-	-	18.127	-	-	25.152	-	-	4.521	-	-	-	-	-	4.521
Avionics PGSE <sup>(3)</sup>	-	-	551.601	-	-	10.700	-	-	23.824	-	-	12.745	-	-	-	-	-	12.745
Peculiar Training Equipment <sup>(4)</sup>	-	-	506.301	-	-	7.528	-	-	23.447	-	-	18.980	-	-	-	-	-	18.980
Full Mission Simulators <sup>(5)</sup>	12.033	34	409.106	-	-	55.787	-	-	114.178	-	-	56.257	-	-	-	-	-	56.257

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>												<b>Date:</b> May 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3						<b>P-1 Line Item Number / Title:</b> ATA000 / F-35						<b>Item Number / Title [DODIC]:</b> F-35					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ODIN / PUBS / TECH DATA (previously ALIS/ODIN) <sup>(6)</sup>	1.005	138	138.703	-	-	19.446	-	-	39.942	-	-	0.000	-	-	-	-	-	0.000
Other ILS Production <sup>(7)</sup>	-	-	994.312	-	-	44.088	-	-	56.381	-	-	52.037	-	-	-	-	-	52.037
Production Eng Support <sup>(8)</sup>	-	-	745.058	-	-	93.840	-	-	112.192	-	-	32.378	-	-	-	-	-	32.378
Fixed JPO Support <sup>(9)</sup>	-	-	4.143	-	-	0.000	-	-	0.000	-	-	57.913	-	-	-	-	-	57.913
Depot Standup <sup>(10)</sup>	-	-	353.018	-	-	164.536	-	-	397.595	-	-	0.000	-	-	-	-	-	0.000
Depot Standup Software <sup>(11)</sup>	-	-	-	-	-	-	-	-	-	-	-	35.971	-	-	-	-	-	35.971
Depot Standup Air Vehicle <sup>(12)</sup>	-	-	-	-	-	-	-	-	-	-	-	141.139	-	-	-	-	-	141.139
Depot Standup Propulsion <sup>(13)</sup>	-	-	-	-	-	-	-	-	-	-	-	78.738	-	-	-	-	-	78.738
<i>Subtotal: Support - Support End Item Cost</i>	-	-	<b>4,648.961</b>	-	-	<b>488.773</b>	-	-	<b>975.521</b>	-	-	<b>595.290</b>	-	-	-	-	-	<b>595.290</b>
<b>Gross/Weapon System Cost</b>	<b>132.723</b>	<b>338</b>	<b>44,860.449</b>	<b>93.972</b>	<b>62</b>	<b>5,826.259</b>	<b>102.955</b>	<b>60</b>	<b>6,177.299</b>	<b>98.225</b>	<b>48</b>	<b>4,714.804</b>	-	-	-	<b>98.225</b>	<b>48</b>	<b>4,714.804</b>

**Remarks:**

- (1) Airframe Unit Recurring Flyaway (URF) is directly affected by United States Air Force (USAF), Department of the Navy (DON) and International Partners quantity profile changes year over year.
- (2) Engine: Increase in engine unit cost in FY2022 as compared to FY2021 is a result of inflation and change in quantities.
- (3) ECO: FY2022 costs will support incorporating any changes for Lot 16 while aircraft are in production flow as a result of Block IV and Tech-Refresh III.
- (4) Non-recurring Costs include such items as USAF share of Production Non-Recurring Tooling necessary to support and maintain planned production ramp. In addition, FY2022 requests includes funding for Diminishing Manufacturing Sources ("Life-of-type" part buys, management, and non-recurring redesign engineering), concurrency engineering, acceptance chase support, technical assistance and Cost Reduction Initiatives (CRI). This cost element includes variable (aircraft qty driven) and fixed costs.
- (5) Year to year changes in Ancillary Equipment costs due to changes in aircraft quantity. Equipment includes Gen III Helmet Mounted Displays, launchers, and Pilot Flight Equipment.
- (\*) 12 additional Airframes and Engines in FY2021

Totals may not add due to rounding.

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3	<b>P-1 Line Item Number / Title:</b> ATA000 / F-35	<b>Item Number / Title [DODIC]:</b> F-35
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<p>(†) indicates the presence of a P-5a</p> <p><b>Footnotes:</b></p> <p>(1) Airframe PGSE: Costs support Site Support Equipment, Regional Center Support Equipment, and Service Unique Requirements. FY22: First Aircraft Arrival (Dannelly Field ANG, NAS JRB Ft Worth, Jacksonville ANG), additional aircraft (Truax ANG, Tyndall), Field Training Detachment (Tyndall)</p> <p>(2) Engine PGSE: Costs support Site Support Equipment, Propulsion Mini Modules, and Training Center Support Equipment Requirements. FY22: First Aircraft Arrival (Dannelly Field ANG, NAS JRB Ft Worth, Jacksonville ANG)</p> <p>(3) Avionics PGSE: Costs support Site Support Equipment, Depot Non-Recurring Engineering, and Service Unique requirements. FY22: First Aircraft Arrival (Dannelly Field ANG, NAS JRB Ft Worth, Jacksonville ANG), additional aircraft (Truax ANG, Tyndall)</p> <p>(4) Peculiar Training Equipment: Costs support/procure Maintenance Training Devices and other associated peculiar training equipment at training and operational sites. FY22: Unique Training Equipment (Tyndall, Dannelly Field ANG, Truax ANG, NAS JRB Ft Worth, Jacksonville ANG)</p> <p>(5) Full Mission Simulators (FMS): Costs support/procure FMSs at training and operational sites. FY22: Full Mission Sims (NAS JRB Ft Worth, Jacksonville ANG)</p> <p>(6) Cost in support of ODIN/ ALIS hardware and standup support to include SOU Modules, Mission Planning, Off board Mission Support Modules, Maintenance, Administration, and Tech-data is provisioned via ODIN/ALIS. No ALIS / ODIN hardware procurement or standup labor requirements in FY22; In accordance with the Consolidated Appropriations Act for 2021 (P.L. 116-260) Joint Explanatory Statement, Division C, F-35 Part Reimbursement, 34.3M in total value will be independently invested in two parts by LM between FY2022 - FY2026 to improve Non Ready-for-Issue (Non-RFI) spare parts as a result of the Electronic Equipment Logbooks (EELs) settlement. These investments include 10M in value for logistics data via the provisioning and cataloging effort and 24.3M in value via future private investments to further improve the F-35 enterprise. These investments did not result in a credit to the Government therefore a credit will not be reflected in this submission</p> <p>(7) Other ILS: Funding provided for ALGS Operations, Joint Tech Data Maintenance, &amp; Other Recurring Investment for contractor support. Shared Tech Data for Provisioning, Maintenance Planning; Unique Site Activation Planning, FY22 ALIS Admins (Truax ANG, Lakenheath)</p> <p>(8) Production Engineering Support: PES cost support Software Support, Shared Sustainment Improvement Plan, Sustaining Engineering &amp; Program Management for the Air Vehicle and Propulsion Administrative Labor requirements. PES is cost-shared with F-35 partners to ensures proper cost-sharing contribution to the enterprise wide requirements.</p> <p>(9) Fixed JPO Support: This cost element includes funds for the JPO program operations and administrative requirements in support of production at the enterprise level. These costs were previously captured in the Production Engineering Support (PES) and Other Integrated Logistics Support (ILS) cost elements. This is not a new start. Efforts in this cost element include Arlington, VA program unique off-base lease costs, program office Contractor Support Services, travel, supplies, Navy working capital technical SME labor/civilian pay, program office IT and software applications, cybersecurity, studies, and program office oversight of property management. These costs are not programmed, budgeted, or funded as part of base operating support and are not associated with Headquarters level support.</p> <p>(10) Starting in FY2022, Depot Standup is broken down in details inbr/Depot Standup Software, Depot Standup Air Vehicle, and Depot Standup Propulsion</p> <p>(11) Depot Standup Software: Costs for Shared SW depot activation requirements at Ogden and Warner Robins Air Logistics Centers</p> <p>(12) Depot Standup Air Vehicle: Costs for shared planning and activation for component-level capability including Block 4 Non-Recurring Engineering, Communication Navigation Integration (CNI) redesign, organic depot requirements, for airframe depots (Ogden Air Logistics Center, Fleet Readiness Center East), calibration support and service unique requirements.</p> <p>(13) Depot Standup Propulsion: Costs to standup shared planning, depot activation, propulsion repair capabilities and material lay-in, including mini module material lay-in, capacity expansion, organic depot requirements, calibration support and service unique requirements for Oklahoma City Air Logistics Center and Fleet Readiness Center Southeast</p>		

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<b>Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force</b>								<b>Date: May 2021</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3				<b>P-1 Line Item Number / Title:</b> ATA000 / F-35				<b>Item Number / Title [DODIC]:</b> F-35				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Airframe/CFE <sup>(†)</sup>		2019	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2019	Jan 2021	56	52.537	Y		Jan 2018
Airframe/CFE <sup>(†)</sup>		2020	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2020	Jan 2022	62	51.819	Y		Jan 2019
Airframe/CFE <sup>(†)</sup>		2021	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Sep 2021	Jan 2023	60	52.276	Y		Jan 2020
Airframe/CFE <sup>(†)</sup>		2022	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2022	Jan 2024	48	53.361	Y		Jan 2020
Engines/Eng ACC <sup>(†)</sup>		2019	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	May 2019	Sep 2020	56	12.371	Y		Mar 2018
Engines/Eng ACC <sup>(†)</sup>		2020	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	Nov 2019	Jul 2021	62	12.371	Y		Mar 2019
Engines/Eng ACC <sup>(†)</sup>		2021	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	Aug 2021	Jun 2022	60	12.488	Y		Mar 2020
Engines/Eng ACC <sup>(†)</sup>		2022	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	May 2022	Jun 2023	48	12.776	Y		Mar 2021

**Advance Procurement**

Airframe/CFE: Long Lead Material		2022	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2022	Jan 2024	48	6.098	Y		Jan 2020
Engines/Eng ACC: Mount-Signal Conditioning Unit		2022	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	Feb 2022	Jun 2023	96	0.001	Y		Mar 2021
Engines/Eng ACC: IDMS Ring, Forward		2022	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	Feb 2022	Jun 2023	48	0.004	Y		Mar 2021
Engines/Eng ACC: IDMS Ring, Rear		2022	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	Feb 2022	Jun 2023	48	0.004	Y		Mar 2021
Engines/Eng ACC: Advance Acquisition Contracts		2022	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	Feb 2022	Jun 2023	48	1.238	Y		Mar 2021

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

**Remarks:**

F-35A production capacity is influenced by F-35A quantities. Maximum combined production including partners for F-35A is 62 per year.

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3	<b>P-1 Line Item Number / Title:</b> ATA000 / F-35	<b>Item Number / Title [DODIC]:</b> F-35
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019													Fiscal Year 2020													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Airframe/CFE																																	
Prior Years Deliveries: 282																																	
	1	2019	AF	56	0	56																							56				
	1	2020	AF	62	0	62																							62				
	1	2021	AF	60	0	60																							60				
	1	2022	AF	48	0	48																							48				
Engines/Eng ACC																																	
Prior Years Deliveries: 282																																	
	2	2019	AF	56	0	56																						52					
	2	2020	AF	62	0	62																							62				
	2	2021	AF	60	0	60																							60				
	2	2022	AF	48	0	48																							48				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3	<b>P-1 Line Item Number / Title:</b> ATA000 / F-35	<b>Item Number / Title [DODIC]:</b> F-35
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2021													Fiscal Year 2022													BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Airframe/CFE																																	
Prior Years Deliveries: 282																																	
	1	2019	AF	56	0	56	-	-	-	2	2	3	2	4	5	6	6	6	7	7	6								0				
	1	2020	AF	62	0	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	3	3	3	7	7	5	7	19		
	1	2021	AF	60	0	60													A -	-	-	-	-	-	-	-	-	-	-	60			
	1	2022	AF	48	0	48																								48			
Engines/Eng ACC																																	
Prior Years Deliveries: 282																																	
	2	2019	AF	56	4	52	3	3	6	7	5	5	7	6	8	2														0			
	2	2020	AF	62	0	62	-	-	-	-	-	-	-	-	-	2	7	4	5	5	6	4	6	4	8	6	5			0			
	2	2021	AF	60	0	60											A -	-	-	-	-	-	-	-	-	-	5	5	5	5	40		
	2	2022	AF	48	0	48																				A -	-	-	-	48			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			



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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 01 / 3 **P-1 Line Item Number / Title:** ATA000 / F-35 **Item Number / Title [DODIC]:** F-35

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024														BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Airframe/CFE																																			
Prior Years Deliveries: 282																																			
	1	2019	AF	56	56	0																							0						
	1	2020	AF	62	43	19	5	7	7																				0						
	1	2021	AF	60	0	60	-	-	-	3	5	3	4	4	4	4	6	8	5	7	7								0						
	1	2022	AF	48	0	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	2	3	3	3	3	5	7	16					
Engines/Eng ACC																																			
Prior Years Deliveries: 282																																			
	2	2019	AF	56	56	0																							0						
	2	2020	AF	62	62	0																							0						
	2	2021	AF	60	20	40	4	5	5	5	5	5	5	6															0						
	2	2022	AF	48	0	48	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4		0						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 01 / 3 **P-1 Line Item Number / Title:** ATA000 / F-35 **Item Number / Title [DODIC]:** F-35

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025												Fiscal Year 2026												BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Airframe/CFE																															
Prior Years Deliveries: 282																															
	1	2019	AF	56	56	0																						0			
	1	2020	AF	62	62	0																						0			
	1	2021	AF	60	60	0																						0			
	1	2022	AF	48	32	16	4	6	6																			0			
Engines/Eng ACC																															
Prior Years Deliveries: 282																															
	2	2019	AF	56	56	0																						0			
	2	2020	AF	62	62	0																						0			
	2	2021	AF	60	60	0																						0			
	2	2022	AF	48	48	0																						0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3	<b>P-1 Line Item Number / Title:</b> ATA000 / F-35	<b>Item Number / Title [DODIC]:</b> F-35
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Lockheed Martin - Fort Worth, TX	24	48	60	0	0	0	0	0	0	6	22	28
2	Pratt & Whitney - East Hartford, CT	24	48	60	0	0	0	0	0	0	8	13	21

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

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

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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2022 Air Force							<b>Date:</b> May 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 3: Tactical Forces							<b>P-1 Line Item Number / Title:</b> ATA000 / F-35					
<b>Program Elements for Code B Items:</b> N/A							<b>Other Related Program Elements:</b> 0604800F					

**Line Item MDAP/MAIS Code:** 198

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>To Complete</b>	<b>Total</b>
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4,959.993	655.500	610.800	352.632	-	352.632	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	4,959.993	655.500	610.800	352.632	-	352.632	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>4,959.993</b>	<b>655.500</b>	<b>610.800</b>	<b>352.632</b>	<b>-</b>	<b>352.632</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Description:**

The Joint Strike Fighter program will develop and field a family of aircraft that meets the needs of the United States and its international partners. Specifically, the Joint Strike Fighter (JSF) will meet USAF Conventional Take Off and Landing (CTOL) requirements with the F-35A variant, the USMC Short Take-Off and Vertical Landing (STOVL) requirements with the F-35B variant, and DoN Carrier Variant (CV) requirements with the F-35C variant. Commonality among the three variants is expected to reduce life cycle costs. This is a joint program with no executive service. Service Acquisition Executive (SAE) authority alternates between the Department of the Navy (DON) and the Department of the Air Force (DAF) and currently resides with the Navy. The F-35 is the next generation of strike fighter to command and maintain global air superiority. The production cost and quantities are interdependent due to one manufacturer for the program. Advance procurement funding will support Airframe and Engine long-lead parts and materials necessary to protect the delivery schedule of the FY2022 aircraft buy, as well as associated termination liability. Additionally advanced procurement funding will provide funding for economic order quantity procurement in support of FY2021 to FY2023 JSF aircraft buys.

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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 3: Tactical Forces		<b>P-1 Line Item Number / Title:</b> ATA000 / F-35
<b>Program Elements for Code B Items:</b> N/A		<b>Other Related Program Elements:</b> 0604800F

**Line Item MDAP/MAIS Code:** 198

Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	F-35			338 / 4,959.993	62 / 655.500	60 / 610.800	48 / 352.632	- / -	48 / 352.632
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>338 / 4,959.993</b>	<b>62 / 655.500</b>	<b>60 / 610.800</b>	<b>48 / 352.632</b>	<b>- / -</b>	<b>48 / 352.632</b>

\*Title represents the P-10 Title for Advance Procurement.  
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 The FY2022 budget requests 352.632M of Advanced Procurement for FY2023 long lead materials. No saving is projected with the Advance Procurement (AP) funding requested in FY2022, but it will support Airframe and Engine long-lead parts and materials necessary to protect the Lot 17 delivery schedule.

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2022 Air Force					<b>Date:</b> May 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3			<b>P-1 Line Item Number / Title:</b> ATA000 / F-35			<b>P-5 Number / Title:</b> F-35	
<b>First System (2022) Award Date:</b> January 2020		<b>First System (2022) Completion Date:</b> January 2023			<b>Interval Between Systems:</b> 0 Months		
<b>F-35</b>		<b>Production Leadtime</b> <i>(Months)</i>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2020</b> <i>(Each)</i>	<b>FY 2021</b> <i>(Each)</i>	<b>FY 2022</b> <i>(Each)</i>	
Quantity		9	338	62	60	48	
<b>Cost Elements</b>		<b>When Required</b> <i>(Months)</i>	<b>Prior Years</b> <i>(\$ M)</i>	<b>FY 2020</b> <i>(\$ M)</i>	<b>FY 2021</b> <i>(\$ M)</i>	<b>FY 2022</b> <i>(\$ M)</i>	
<b>CFE</b>							
Airframe/CFE: Long Lead Material <sup>(†)</sup>		18	3,926.164	336.068	321.958	292.685	
Airframe/CFE: For FY21 Economic Order Quantity (Lot 15)		0	-	127.360	-	-	
Airframe/CFE: For FY22 Economic Order Quantity (Lot 16)		0	-	63.595	119.466	-	
Airframe/CFE: For FY23 Economic Order Quantity (Lot 17)		0	-	59.644	103.433	-	
<b>Total: CFE</b>			<b>3,926.164</b>	<b>586.667</b>	<b>544.857</b>	<b>292.685</b>	
<b>GFE</b>							
Engines/Eng ACC: Long Lead Material		24	1,033.829	68.833	65.943	0.000	
Engines/Eng ACC: Mount-Signal Conditioning Unit <sup>(†)</sup>		24	-	-	-	0.131	
Engines/Eng ACC: IDMS Ring, Forward <sup>(†)</sup>		24	-	-	-	0.210	
Engines/Eng ACC: IDMS Ring, Rear <sup>(†)</sup>		24	-	-	-	0.194	
Engines/Eng ACC: Advance Acquisition Contracts <sup>(†)</sup>		24	-	-	-	59.412	
<b>Total: GFE</b>			<b>1,033.829</b>	<b>68.833</b>	<b>65.943</b>	<b>59.947</b>	
<b>Total Advance Procurement/Obligation Authority</b>			<b>4,959.993</b>	<b>655.500</b>	<b>610.800</b>	<b>352.632</b>	

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**Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification):** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3	<b>P-1 Line Item Number / Title:</b> ATA000 / F-35	<b>P-5 Number / Title:</b> F-35
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Cost Elements	QPA (Each)	Production Leadtime (Months)	FY 2022				Total Cost Request (\$ M)
			Unit Cost (\$ M)	Contract Forecast Date	2022 Qty (Each)	For FY	
<b>CFE</b>							
Airframe/CFE: Long Lead Material <sup>(†)</sup>	1	18	6.098	Mar 2022	48		292.685
Airframe/CFE: For FY21 Economic Order Quantity (Lot 15)	-						-
Airframe/CFE: For FY22 Economic Order Quantity (Lot 16)	-						-
Airframe/CFE: For FY23 Economic Order Quantity (Lot 17)	-						-
<i>Total: CFE</i>							292.685
<b>GFE</b>							
Engines/Eng ACC: Long Lead Material	-						0.000
Engines/Eng ACC: Mount-Signal Conditioning Unit <sup>(†)</sup>	2	18	0.001	Feb 2022	96		0.131
Engines/Eng ACC: IDMS Ring, Forward <sup>(†)</sup>	1	18	0.004	Feb 2022	48		0.210
Engines/Eng ACC: IDMS Ring, Rear <sup>(†)</sup>	1	18	0.004	Feb 2022	48		0.194
Engines/Eng ACC: Advance Acquisition Contracts <sup>(†)</sup>	1	24	1.238	Feb 2022	48		59.412
<i>Total: GFE</i>							59.947
<b>Total Advance Procurement/Obligation Authority</b>							<b>352.632</b>

**Description:**  
F-35 Advanced Procurement.

CFE-Airframe: AP funding will be used towards the following Air Vehicle suppliers/systems based on the lead time associated with the material(s): TR3 Components (Integrated Core Processor, Aircraft Memory System, Panoramic Cockpit Display); Bulkhead forgings; Collins Landing Gear; BAE Electronic Warfare components; IAI Outer Wing Box; BAE Aft Fuselage components; Northrop Grumman Center Fuselage, Communication, Navigation & Identification (CNI), and Radar components; ATK Wing Skins; Curtiss-Wright Controls LEFDS; Ball Aerospace CNI Integrated Body Apertures; Heroux-Devtek FODUS; Fokker Flaperons; Arkwin Industries Actuators; and Leonardo Wing.

GFE-Engines Long Lead: FY22 is broken down into more details.

Advance Acquisition Contracts (AAC) will be awarded for long-lead items on a termination liability basis to protect delivery schedule. Prior to award of each Advance Acquisition Contract, P&W will be required to provide a termination liability funding schedule, including identification of all vendor and in-house activities, or other such data required to support the amount of termination liability funding requested (Lot 17, FY22 \$59.412M). The amount of termination liability funds requested will cover long-lead obligations (approximately one year) until such time as additional funding is appropriated and made available to the F-35 Lightning II Program.

<sup>(†)</sup> indicates the presence of Contract Data presented in the associated P-5 Item's P-5a exhibit.



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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 3: Tactical Forces

**P-1 Line Item Number / Title:**  
F015E0 / F-15e

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207146F

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	6	6	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	621.100	0.000	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	621.100	0.000	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>621.100</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>	-	-	-	-	-	-

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

Initial Spares ( <i>\$ in Millions</i> )	-	25.000	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	96.017	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	103.517	0.000	-	-	-	-	-	-	-	-	-

**Description:**

Note: This program was transferred to F015EX/F-15EX starting in FY21 for transparency.  
Note: The quantity showing in FY21 (6) is a database error. No quantities were procured in this P-1 line in FY21.

The expected procurement quantity for F-15EX is 144 aircraft (a combination of 2 in RDTE (PE27134F); 6 in F015E0 (Line #3); and 136 in F015EX (Line #4)). F-15EX is currently a Middle Tier of Acquisition program. Once the program transitions to a Major Defense Acquisition Program and the Acquisition Program Baseline is approved, the official program quantity for F-15EX will be established. All numbers are based on the Air Force Cost Analysis Agency's Non-Advocate Cost Assessment and will be refined for major milestones and on an annual basis.

The F-15EX will be based on the 2-seat F-15QA (Qatar) configuration upgraded with USAF-only capabilities, including the Eagle Passive Active Warning and Survivability System (EPAWSS) and the Suite 9.1 Operational Flight Program (OFP) software. With two seats, it will be multirole-capable and operable by one or two aircrew. F-15EX logistics, maintenance, and training will heavily leverage the existing F-15 infrastructure. Many F-15C/Ds are beyond their service life and have serious structures risks, wire chafing issues, and obsolete parts. The average F-15C/D is 37 years old and approaching the end of its safe service life; the oldest F-15C was delivered in 1979. Readiness goals are unachievable due to continuous structural inspections, time-consuming repairs, and on-going modernization efforts.

Funding may be used to resolve Diminishing Manufacturing Sources and 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.

**Justification:**

No FY22 funding requested in PE 27134F BPAC F015E0. All FY22 funding requested in PE 27146F BPAC F015EX.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 3: Tactical Forces **P-1 Line Item Number / Title:** F015EX / F-15EX

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207134F

**Line Item MDAP/MAIS Code:** 439

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	12	12	-	12	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	1,233.647	1,320.403	-	1,320.403	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	0.000	0.000	133.500	-	133.500	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	1,233.647	1,186.903	-	1,186.903	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	0.000	133.500	147.919	-	147.919	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>1,367.147</b>	<b>1,334.822</b>	-	<b>1,334.822</b>	-	-	-	-	-	-

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	80.000	89.160	-	89.160	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	87.700	97.933	-	97.933	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	102.804	110.034	-	110.034	-	-	-	-	-	-

**Description:**

Note: FY 2022 funding for this program was reported in F015EO/F-15e.

The expected procurement quantity for F-15EX is 144 aircraft (a combination of 2 in RDTE (PE27134F); 6 in F015E0 (Line #3); and 136 in F015EX (Line #4)). F-15EX is currently a Middle Tier of Acquisition program. Once the program transitions to a Major Defense Acquisition Program and the Acquisition Program Baseline is approved, the official program quantity for F-15EX will be established. All numbers are based on the Air Force Cost Analysis Agency's Non-Advocate Cost Assessment and will be refined for major milestones and on an annual basis.

The F-15EX will be based on the 2-seat F-15QA (Qatar) configuration upgraded with USAF-only capabilities, including the Eagle Passive Active Warning and Survivability System (EPAWSS) and the Suite 9.1 Operational Flight Program (OFP) software. With two seats, it will be multirole-capable and operable by one or two aircrew. F-15EX logistics, maintenance, and training will heavily leverage the existing F-15 infrastructure. Many F-15C/Ds are beyond their service life and have serious structures risks, wire chafing issues, and obsolete parts. The average F-15C/D is 37 years old and approaching the end of its safe service life; the oldest F-15C was delivered in 1979. Readiness goals are unachievable due to continuous structural inspections, time-consuming repairs, and on-going modernization efforts.

Funding may be used to resolve Diminishing Manufacturing Sources and 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.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 3: Tactical Forces **P-1 Line Item Number / Title:** F015EX / F-15EX

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207134F

**Line Item MDAP/MAIS Code:** 439

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	F-15EX	P-5a, P-21	A		- / -	- / 0.000	12 / 1,233.647	12 / 1,320.403	- / -	12 / 1,320.403
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 0.000</b>	<b>12 / 1,233.647</b>	<b>12 / 1,320.403</b>	<b>- / -</b>	<b>12 / 1,320.403</b>

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

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

**Justification:**  
 BASIS FOR FY 2022 BUDGET REQUEST: The FY 2022 budget provides funding for 12 F-15EX aircraft and associated support equipment, training system upgrades, depot activation, initial spares, and production non-recurring engineering and other related items required to manufacture the aircraft, provide operational conversion (from F-15C/D to F-15EX) support, and meet logistics and sustainment requirements. Once an Acquisition Program Baseline is approved, the Air Force will work to properly align funding for initial spares, depot activation, etc.

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**Exhibit P-5, Cost Analysis: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3	<b>P-1 Line Item Number / Title:</b> F015EX / F-15EX	<b>Item Number / Title [DODIC]:</b> F-15EX
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	12	12	-	12
Gross/Weapon System Cost (\$ in Millions)	-	0.000	1,233.647	1,320.403	-	1,320.403
Less PY Advance Procurement (\$ in Millions)	-	0.000	0.000	133.500	-	133.500
Net Procurement (P-1) (\$ in Millions)	-	0.000	1,233.647	1,186.903	-	1,186.903
Plus CY Advance Procurement (\$ in Millions)	-	0.000	133.500	147.919	-	147.919
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>0.000</b>	<b>1,367.147</b>	<b>1,334.822</b>	-	<b>1,334.822</b>

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

Initial Spares (\$ in Millions)	-	-	80.000	89.160	-	89.160
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	102.804	110.034	-	110.034

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway - F-15EX Cost</b>																		
Recurring Cost																		
Airframe <sup>(†)</sup>	-	-	-	-	-	0.000	73.600	12	883.200	73.156	12	877.872	-	-	-	73.156	12	877.872
Engines (2) <sup>(†)</sup>	-	-	-	-	-	-	11.200	12	134.400	11.312	12	135.744	-	-	-	11.312	12	135.744
AME	-	-	-	-	-	-	1.100	12	13.200	1.326	12	15.912	-	-	-	1.326	12	15.912
ECO	-	-	-	-	-	-	1.800	12	21.600	1.530	12	18.360	-	-	-	1.530	12	18.360
GFE	-	-	-	-	-	-	-	-	-	0.714	12	8.568	-	-	-	0.714	12	8.568
Pilot Gear	-	-	-	-	-	-	-	-	-	0.510	12	6.120	-	-	-	0.510	12	6.120
SEPM	-	-	-	-	-	-	-	-	-	1.224	12	14.688	-	-	-	1.224	12	14.688
<b>Subtotal: Recurring Cost</b>	-	-	-	-	-	<b>0.000</b>	-	-	<b>1,052.400</b>	-	-	<b>1,077.264</b>	-	-	-	-	-	<b>1,077.264</b>
Non Recurring Cost																		
Non-Recurring Cost	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
<b>Subtotal: Non Recurring Cost</b>	-	-	-	-	-	-	-	-	<b>0.000</b>	-	-	-	-	-	-	-	-	-
<b>Subtotal: Flyaway - F-15EX Cost</b>	-	-	-	-	-	<b>0.000</b>	-	-	<b>1,052.400</b>	-	-	<b>1,077.264</b>	-	-	-	-	-	<b>1,077.264</b>
<b>Support - F-15EX Cost</b>																		
Other Support Costs	-	-	-	-	-	-	-	-	65.247	-	-	65.123	-	-	-	-	-	65.123
Training	-	-	-	-	-	-	-	-	12.000	-	-	18.000	-	-	-	-	-	18.000
Support Equipment	-	-	-	-	-	-	-	-	20.000	-	-	30.000	-	-	-	-	-	30.000
Initial Spares	-	-	-	-	-	-	-	-	80.000	-	-	89.016	-	-	-	-	-	89.016
Depot Activation	-	-	-	-	-	-	-	-	4.000	-	-	41.000	-	-	-	-	-	41.000

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>												<b>Date: May 2021</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3						<b>P-1 Line Item Number / Title:</b> F015EX / F-15EX						<b>Item Number / Title [DODIC]:</b> F-15EX					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - F-15EX Cost</i>	-	-	-	-	-	-	-	-	181.247	-	-	243.139	-	-	-	-	-	243.139
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	102.804	12	1,233.647	110.034	12	1,320.403	-	-	-	110.034	12	1,320.403

**Remarks:**

FY 2020 funding is appropriated in Program 0207134F F015E0. Once an Acquisition Program Baseline is approved, the Air Force will work to properly align funding for depot stand-up, initial spares, etc.

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force** **Date: May 2021**

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3	<b>P-1 Line Item Number / Title:</b> F015EX / F-15EX	<b>Item Number / Title [DODIC]:</b> F-15EX
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Airframe <sup>(†)</sup>		2021	Boeing / St. Louis, MO	SS / FFP	AFLCMC/WA	Jul 2021	Jan 2024	12	73.600	Y		Oct 2020
Airframe <sup>(†)</sup>		2022	Boeing / St. Louis, MO	SS / FFP	AFLCMC/WA	May 2022	Oct 2024	12	73.156	Y		Mar 2021
Engines (2) <sup>(†)</sup>		2021	TBD / TBD	C / FFP	AFLCMC Wright Patterson AFB	Aug 2021	Oct 2023	12	11.200	Y		Jan 2021
Engines (2) <sup>(†)</sup>		2022	TBD / TBD	C / FFP	AFLCMC Wright Patterson AFB	Mar 2022	Jul 2024	12	11.312	Y		Jan 2021

**Advance Procurement**

Airframe: AFT Fuselage		2022	Boeing / St. Louis, MO	SS / FFP	AFLCMC/WA	Mar 2022	Oct 2024	14	1.494	Y		Mar 2021
Airframe: Avionics		2022	Boeing / St. Louis, MO	SS / FFP	AFLCMC/WA	Mar 2022	Oct 2024	14	0.550	Y		Mar 2021
Airframe: Canopy		2022	Boeing / St. Louis, MO	SS / FFP	AFLCMC/WA	Mar 2022	Oct 2024	14	0.010	Y		Mar 2021
Airframe: Center Fuselage		2022	Boeing / St. Louis, MO	SS / FFP	AFLCMC/WA	Mar 2022	Oct 2024	14	0.975	Y		Mar 2021
Airframe: Forward Fuselage		2022	Boeing / St. Louis, MO	SS / FFP	AFLCMC/WA	Mar 2022	Oct 2024	14	0.033	Y		Mar 2021
Airframe: Structures		2022	Boeing / St. Louis, MO	SS / FFP	AFLCMC/WA	Mar 2022	Oct 2024	14	0.714	Y		Mar 2021
Airframe: Subsystems		2022	Boeing / St. Louis, MO	SS / FFP	AFLCMC/WA	Mar 2022	Oct 2024	14	6.644	Y		Mar 2021
Airframe: Wings		2022	Boeing / St. Louis, MO	SS / FFP	AFLCMC/WA	Mar 2022	Oct 2024	14	0.146	Y		Mar 2021

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

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Exhibit P-21, Production Schedule: PB 2022 Air Force Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3 P-1 Line Item Number / Title: F015EX / F-15EX Item Number / Title [DODIC]: F-15EX

Cost Elements (Units in Each)						Fiscal Year 2021												Fiscal Year 2022												B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 0	BAL D U E A 	Calendar Year 2021												Calendar Year 2022														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
Airframe																																	
	1	2021	AF	12	0	12													A	-	-	-	-	-	-	-	-	-	-	-	12		
	1	2022	AF	12	0	12																						A	-	-	-	-	12
Engines (2)																																	
	2	2021	AF	12	0	12														A	-	-	-	-	-	-	-	-	-	-	12		
	2	2022	AF	12	0	12																						A	-	-	-	-	12
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			



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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3	<b>P-1 Line Item Number / Title:</b> F015EX / F-15EX	<b>Item Number / Title [DODIC]:</b> F-15EX
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024														BALANCE					
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									
Airframe																																							
	1	2021	AF	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	2	2	2	0
	1	2022	AF	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Engines (2)																																							
	2	2021	AF	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4		
	2	2022	AF	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	9
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3	<b>P-1 Line Item Number / Title:</b> F015EX / F-15EX	<b>Item Number / Title [DODIC]:</b> F-15EX
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025												Fiscal Year 2026												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Airframe																															
	1	2021	AF	12	12	0																							0		
	1	2022	AF	12	0	12	1	1	1	1	1	1	1	1	1	1	1												1		
Engines (2)																															
	2	2021	AF	12	8	4																							4		
	2	2022	AF	12	3	9	1	1	1	1	1	1	1	1															1		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2022 Air Force	<b>Date:</b> May 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3	<b>P-1 Line Item Number / Title:</b> F015EX / F-15EX	<b>Item Number / Title [DODIC]:</b> F-15EX
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Boeing - St. Louis, MO	11	18	24	0	0	0	0	0	0	8	29	37
2	TBD - TBD	11	18	24	0	0	0	0	0	0	6	28	34

**Remarks:**  
Engine procurement quantities represent one set per aircraft.

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

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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2022 Air Force							<b>Date:</b> May 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 3: Tactical Forces							<b>P-1 Line Item Number / Title:</b> F015EX / F-15EX					
<b>Program Elements for Code B Items:</b> N/A							<b>Other Related Program Elements:</b> 0207134F					
<b>Line Item MDAP/MAIS Code:</b> 439												

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>To Complete</b>	<b>Total</b>
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	133.500	147.919	-	147.919	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	133.500	147.919	-	147.919	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>133.500</b>	<b>147.919</b>	-	<b>147.919</b>	-	-	-	-	-	-

**Description:**

The F-15EX will be based on the 2-seat F-15QA (Qatar) configuration upgraded with USAF-only capabilities, including the Eagle Passive Active Warning and Survivability System (EPAWSS) and the Suite 9.1 Operational Flight Program (OFP) software. With two seats, it will be multirole-capable and operable by one or two aircrew. F-15EX logistics, maintenance, and training will heavily leverage the existing F-15 infrastructure. Many F-15C/Ds are beyond their service life and have serious structures risks, wire chafing issues, and obsolete parts. The average F-15C/D is 37 years old and approaching the end of its safe service life; the oldest F-15C was delivered in 1979. Readiness goals are unachievable due to continuous structural inspections, time-consuming repairs, and on-going modernization efforts. Advanced Procurement funding will support airframe long-lead parts and materials necessary to protect the delivery schedule of the subsequent aircraft lot buy.

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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 3: Tactical Forces		<b>P-1 Line Item Number / Title:</b> F015EX / F-15EX
<b>Program Elements for Code B Items:</b> N/A		<b>Other Related Program Elements:</b> 0207134F

**Line Item MDAP/MAIS Code:** 439

Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	F-15EX			- / -	- / 0.000	12 / 133.500	12 / 147.919	- / -	12 / 147.919
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			- / -	- / 0.000	12 / 133.500	12 / 147.919	- / -	12 / 147.919

\*Title represents the P-10 Title for Advance Procurement.  
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 The FY 2022 budget requests 147.9M of Advanced Procurement for 14 F-15EX aircraft to be procured in FY 2023. Advance Procurement funding provides for the procurement, fabrication, and manufacturing of long-lead items necessary to maintain the F-15EX aircraft delivery schedule. Funding may also be used to resolve Diminishing Manufacturing Sources and 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.

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2022 Air Force					<b>Date:</b> May 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3			<b>P-1 Line Item Number / Title:</b> F015EX / F-15EX			<b>P-5 Number / Title:</b> F-15EX	
<b>First System (2022) Award Date:</b> March 2022		<b>First System (2022) Completion Date:</b> October 2025			<b>Interval Between Systems:</b> 0 Months		
<b>F-15EX</b>		<b>Production Leadtime</b> <i>(Months)</i>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2020</b> <i>(Each)</i>	<b>FY 2021</b> <i>(Each)</i>	<b>FY 2022</b> <i>(Each)</i>	
Quantity		12	-	-	12	12	
<b>Cost Elements</b>		<b>When Required</b> <i>(Months)</i>	<b>Prior Years</b> <i>(\$ M)</i>	<b>FY 2020</b> <i>(\$ M)</i>	<b>FY 2021</b> <i>(\$ M)</i>	<b>FY 2022</b> <i>(\$ M)</i>	
<b>CFE</b>							
Airframe: AFT Fuselage <sup>(†)</sup>		12	-	-	18.875	20.913	
Airframe: Avionics <sup>(†)</sup>		12	-	-	6.953	7.704	
Airframe: Canopy <sup>(†)</sup>		12	-	-	0.131	0.145	
Airframe: Center Fuselage <sup>(†)</sup>		12	-	-	12.323	13.654	
Airframe: Forward Fuselage <sup>(†)</sup>		12	-	-	0.417	0.462	
Airframe: Structures <sup>(†)</sup>		12	-	-	9.015	9.989	
Airframe: Subsystems <sup>(†)</sup>		12	-	-	83.945	93.012	
Airframe: Wings <sup>(†)</sup>		12	-	-	1.841	2.040	
<i>Total: CFE</i>			-	-	133.500	147.919	
<b>Total Advance Procurement/Obligation Authority</b>			-	<b>0.000</b>	<b>133.500</b>	<b>147.919</b>	

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification):</b> PB 2022 Air Force						<b>Date:</b> May 2021	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 01 / 3			<b>P-1 Line Item Number / Title:</b> F015EX / F-15EX			<b>P-5 Number / Title:</b> F-15EX	
<b>FY 2022</b>							
<b>Cost Elements</b>	<b>QPA (Each)</b>	<b>Production Leadtime (Months)</b>	<b>Unit Cost (\$ M)</b>	<b>Contract Forecast Date</b>	<b>2022 Qty (Each)</b>	<b>For FY</b>	<b>Total Cost Request (\$ M)</b>
<b>CFE</b>							
Airframe: AFT Fuselage <sup>(†)</sup>	1	25	1.494	Mar 2022	14		20.913
Airframe: Avionics <sup>(†)</sup>	1	25	0.550	Mar 2022	14		7.704
Airframe: Canopy <sup>(†)</sup>	1	25	0.010	Mar 2022	14		0.145
Airframe: Center Fuselage <sup>(†)</sup>	1	25	0.975	Mar 2022	14		13.654
Airframe: Forward Fuselage <sup>(†)</sup>	1	25	0.033	Mar 2022	14		0.462
Airframe: Structures <sup>(†)</sup>	1	28	0.714	Mar 2022	14		9.989
Airframe: Subsystems <sup>(†)</sup>	1	25	6.644	Mar 2022	14		93.012
Airframe: Wings <sup>(†)</sup>	1	24	0.146	Mar 2022	14		2.040
<i>Total: CFE</i>							<i>147.919</i>
<b>Total Advance Procurement/Obligation Authority</b>							<b>147.919</b>

**Description:**  
The FY 2022 budget requests \$147.9M of Advanced Procurement for long-lead materials for 14 F-15EX aircraft to be procured in FY 2023.

<sup>(†)</sup> indicates the presence of Contract Data presented in the associated P-5 Item's P-5a exhibit.



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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 02: Airlift Aircraft / BSA 2: Tactical Airlift **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:** 0605221F

**Line Item MDAP/MAIS Code:** 387

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	67	12	15	14	-	14	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	10,889.876	2,139.705	2,665.299	2,380.315	-	2,380.315	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	10,889.876	2,139.705	2,665.299	2,380.315	-	2,380.315	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>10,889.876</b>	<b>2,139.705</b>	<b>2,665.299</b>	<b>2,380.315</b>	<b>-</b>	<b>2,380.315</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

Initial Spares ( <i>\$ in Millions</i> )	1,000.401	-	194.189	222.023	-	222.023	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	148.681	160.562	156.065	153.354	-	153.354	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	162.535	178.309	177.687	170.023	-	170.023	-	-	-	-	-	-

**Description:**

Replacement of the legacy tanker fleet will take place in several stages. The initial tanker replacement increment of KC-46s will replace roughly a third of the current capability. Future programs will ultimately recapitalize the entire tanker fleet over a period of more than 30 years. The Air Force completed an Analysis of Alternatives (AoA) in Apr 2006 to determine the most appropriate strategy to recapitalize the aging fleet of aerial refueling aircraft. Based on this analysis, the Air Force concluded a strategy of full and open competition to select a commercial derivative replacement tanker aircraft would result in a best value tanker contract. To initiate the first phase of the tanker replacement, the KC-46 program released a final Request for Proposal (RFP) on 24 Feb 2010, and entered source selection on 9 Jul 2010. The KC-46 program held a Milestone B (MS B) Defense Acquisition Board (DAB) on 23 Feb 2011, received approval to enter Engineering and Manufacturing Development (EMD) from the Undersecretary of Defense (Acquisition, Technology and Logistics) (USD(AT&L)) on 24 Feb 2011, and awarded the KC-46 EMD contract to Boeing on 24 Feb 2011 to develop and procure 179 KC-46 aircraft. The program is procuring four RDT&E aircraft for integration and demonstration of capability which will ultimately be operationally fielded. During production, the program plans to procure 175 aircraft throughout 13 lots. The KC-46 program held a MS C DAB on 12 Aug 2016 and received approval to enter Low Rate Initial Production (LRIP). The program awarded LRIP Lots 1 and 2 on 18 Aug 2016, LRIP Lot 3 on 27 Jan 2017, LRIP Lot 4 on 10 Sep 2018, and LRIP Lot 5 on 27 Sep 2019. Lot 6 awarded the aircraft on 12 Jan 2021 and Lot 7 awarded on 20 Jan 2021 bringing the total number of aircraft on contract to 94. The associated spares and support equipment is planned to award later in FY 2021. Initial sustainment effort is provided via Interim Contractor Support (ICS). KC-46 funding also supports Training Systems, Support Equipment, Operational Site Activation, Depot Stand-Up, Alternate Mission Equipment (AME), Direct Mission Support, Program Management Administration (PMA) activities, Other Government Costs (OGC), various studies and analyses, future tanker replacement planning activities, long lead items, and potential Diminishing Manufacturing Sources (DMS) and obsolescence planning activities.

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 first DD250 was signed on 10 Jan 2019. The Air Force delivered the first KC-46 to McConnell Air Force Base on 25 Jan 2019. As of 7 Apr 2021, 44 aircraft have been delivered to the Air Force.

The Aircrew Training System (ATS) and Maintenance Training System (MTS) are being procured using KC-46 funding. The ATS contract was awarded on 1 May 2013 to Flight Safety Services Corporation. The ATS contract will provide Aircrew Training Devices (ATDs), to include Weapon System Trainers (WSTs), Boom Operator Trainers (BOTs), Fuselage Trainers (FuTs), Part-Task Trainers (PTTs), and emerging technologies to meet validated Air Mobility Command (AMC) aircrew training requirements at each Main Operating Base (MOB) and the Formal Training Unit (FTU). The ATS contract will also support Distributed Mission Operations (DMO), provide aircrew instruction, develop courseware, provide logistics support, acquire a technical data package to support future competition efforts, and manage training device/courseware concurrency with the aircraft. The first six ATS production options were exercised on 19 Aug 2015, 31 May 2017, 30 Apr 2018, 31 Mar 2019, 27 Feb 2020, and 4 Mar 2021.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 02: Airlift Aircraft / BSA 2: Tactical Airlift		<b>P-1 Line Item Number / Title:</b> KC046A / KC-46A MDAP
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> 0401221F	<b>Other Related Program Elements:</b> 0605221F
<b>Line Item MDAP/MAIS Code:</b> 387		
<p>The MTS contract was awarded 6 Jul 2016 to The Boeing Company. The MTS acquisition focuses on designing, developing, testing, producing, and fielding an optimized training system for KC-46 maintainers by integrating various forms of training media and Maintenance Training Devices (MTDs) into a "blended" solution. This blended solution includes the appropriate mix of hardware and software, "high-fidelity" Augmented Hardware Training Devices (AHTDs), PTTs, Interactive Multimedia Instruction (IMI), and emerging technologies to meet validated AMC maintenance training requirements. A MTS initial production option, Virtual Maintenance Training Systems (VMTS) classrooms was exercised on 15 Jun 2017 in support of ready for training dates, also 5 Aug 2019 an option was exercised to acquire the remaining two Flight Deck Avionics Trainers (FDAT) to complete the compliment of hardware training devices for McConnell AFB. DD250s were signed for 20 classrooms and delivery was in Dec 2018.</p> <p>The MS B acquisition strategy planned for two LRIP lots followed by 11 Full-Rate Production (FRP) lots for a total aircraft procurement of 175 production aircraft. An update to the acquisition strategy occurred in support of MS C that increased LRIP from two to four lots, with the total aircraft buy remaining at 175 production aircraft. The MS C acquisition strategy for Large Aircraft Infrared Countermeasures (LAIRCM) changed from Contractor Furnished Equipment (CFE) to Government Furnished Property (GFP) in FY 2017 and FY 2017 funding procured LAIRCM for Lot 3 and Lot 4 aircraft. FY 2022 funding provides for the procurement of LAIRCM in time to support future year aircraft production. A Dec 2017 USD(AT&amp;L) Acquisition Decision Memorandum expanded LRIP to include Lot 5. Another Program Deviation Report was submitted on June 8, 2020, to declare a breach to the Full Rate Production Decision. A new APB dated October 19, 2020 was approved, and a new ADM dated October 20, 2020 re-designated Lots 6 through 9 as LRIP.</p> <p>Note: Initial Spares were procured with Aircraft Procurement, Air Force (APAF), Aircraft Weapon System funding in FY 2015 and transitioned to APAF, Aircraft Initial Spares and Repairs funding in FY 2016. Spare engines are included within the Initial Spares line.</p> <p>KC-46 is code B as it has not yet completed a FRP decision. The KC-46 program successfully completed Critical Design Review (CDR) in Aug 2013, one month ahead of the contractual requirement. Live Fire Testing began in Apr 2011 and completed in FY 2016. KC-46 First Flight occurred on 25 Sep 2015. Developmental Test and Evaluation (DT&amp;E) completed in the first quarter of FY 2019 with the use of LRIP aircraft. Initial Operational Test and Evaluation (IOT&amp;E) formally began in Oct 2019.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), the KC-46 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> <p>Funding for an Aeromedical Evacuation (AE) Cargo Compartment Trainer (FY 2020) is contained in PE 0401897F.</p> <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>Funding for this exhibit is contained in PE 0401221F.</p> <p>This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D</p>		

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 02: Airlift Aircraft / BSA 2: Tactical Airlift **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:** 0605221F

**Line Item MDAP/MAIS Code:** 387

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	KC-46A MDAP	P-5a, P-21	B		67 / 10,889.876	12 / 2,139.705	15 / 2,665.299	14 / 2,380.315	- / -	14 / 2,380.315
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>67 / 10,889.876</b>	<b>12 / 2,139.705</b>	<b>15 / 2,665.299</b>	<b>14 / 2,380.315</b>	<b>- / -</b>	<b>14 / 2,380.315</b>

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

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

**Justification:**  
 The FY 2022 budget supports the procurement of 14 KC-46A aircraft along with other necessary associated expenses to deliver, sustain, and maintain the Lot 8 aircraft buy to include Support Equipment, Operational Site Activation, Depot Stand-Up, ICS, Alternate Mission Equipment (e.g., WARPs, Palletized Seating), and Direct Mission Support. FY 2022 funding provides for the procurement of long-lead GFE (e.g., LAIRCM) in support of future year aircraft production. The WARP kits (2 pods per kit) will be procured as CFE.

PMA activities for contractor services and OGCs are included in the FY 2022 funding. The FY 2022 funding will also support studies and analyses and potential DMS/obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.

The KC-46 FY 2022 funding will include ATS procurement of ATDs and compulsory elements required to support Aircrew Training throughput levels as identified by AMC.

The aircraft initial spares program funds are required to fill the initial spares parts pipeline and repair spare parts in support of newly fielded aircraft. These initial spares include spare engines. This program meets Air Mobility Command's bed-down plan for KC-46A.

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 2	<b>P-1 Line Item Number / Title:</b> KC046A / KC-46A MDAP	<b>Item Number / Title [DODIC]:</b> KC-46A MDAP

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	67	12	15	14	-	14
Gross/Weapon System Cost (\$ in Millions)	10,889.876	2,139.705	2,665.299	2,380.315	-	2,380.315
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	10,889.876	2,139.705	2,665.299	2,380.315	-	2,380.315
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>10,889.876</b>	<b>2,139.705</b>	<b>2,665.299</b>	<b>2,380.315</b>	<b>-</b>	<b>2,380.315</b>

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

Initial Spares (\$ in Millions)	1,000.401	0.000	194.189	222.023	-	222.023
Gross/Weapon System Unit Cost (\$ in Millions)	162.535	178.309	177.687	170.023	-	170.023

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway - Flyaway End Item Cost</b>																		
Non Recurring Cost																		
Airframe <sup>(†)</sup>	143.472	67	9,612.598	160.562	12	1,926.745	147.710	15	2,215.653	149.132	14	2,087.852	-	-	-	149.132	14	2,087.852
AME Wing Aerial Refueling Pod (WARP) kits	5.394	25	134.850	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Boom Telescope Actuator	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
AWL	-	-	-	-	-	-	-	-	83.366	-	-	0.000	-	-	-	-	-	0.000
GFE (LAIRCM)	-	-	211.573	-	-	0.000	3.496	12	41.953	3.257	15	48.861	-	-	-	3.257	15	48.861
AME (Other)	-	-	2.621	-	-	0.000	-	-	0.000	-	-	10.238	-	-	-	-	-	10.238
<i>Subtotal: Non Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>9,961.642</i>	<i>-</i>	<i>-</i>	<i>1,926.745</i>	<i>-</i>	<i>-</i>	<i>2,340.972</i>	<i>-</i>	<i>-</i>	<i>2,146.951</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2,146.951</i>
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	<i>-</i>	<i>-</i>	<i>9,961.642</i>	<i>-</i>	<i>-</i>	<i>1,926.745</i>	<i>-</i>	<i>-</i>	<i>2,340.972</i>	<i>-</i>	<i>-</i>	<i>2,146.951</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2,146.951</i>
<b>Support - Support End Item Cost</b>																		
Init. Spares	-	-	168.686	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Aircrew Training Systems (ATS)	-	-	199.157	-	-	0.000	-	-	40.357	-	-	0.000	-	-	-	-	-	0.000
Maintenance Training Systems (MTS)	-	-	6.621	-	-	27.284	-	-	14.489	-	-	0.271	-	-	-	-	-	0.271
Support Equipment	-	-	241.811	-	-	28.906	-	-	4.814	-	-	43.121	-	-	-	-	-	43.121
Operational Site Activation	-	-	1.009	-	-	0.878	-	-	0.000	-	-	11.706	-	-	-	-	-	11.706

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 2	<b>P-1 Line Item Number / Title:</b> KC046A / KC-46A MDAP	<b>Item Number / Title [DODIC]:</b> KC-46A MDAP
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Depot Stand-Up	-	-	52.828	-	-	5.595	-	-	155.913	-	-	119.470	-	-	-	-	-	119.470
Interim Contractor Support	-	-	179.304	-	-	99.263	-	-	102.909	-	-	12.767	-	-	-	-	-	12.767
Direct Mission Support	-	-	19.756	-	-	2.559	-	-	2.357	-	-	5.979	-	-	-	-	-	5.979
PMA - Contractor Services	-	-	33.060	-	-	30.053	-	-	0.322	-	-	24.145	-	-	-	-	-	24.145
PMA - Other Government Costs	-	-	26.002	-	-	12.040	-	-	3.166	-	-	15.905	-	-	-	-	-	15.905
Aeromedical Evacuation Cargo Compartment Trainer	-	-	-	-	-	6.382	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	<b>928.234</b>	-	-	<b>212.960</b>	-	-	<b>324.327</b>	-	-	<b>233.364</b>	-	-	-	-	-	<b>233.364</b>
<b>Gross/Weapon System Cost</b>	<b>162.535</b>	<b>67</b>	<b>10,889.876</b>	<b>178.309</b>	<b>12</b>	<b>2,139.705</b>	<b>177.687</b>	<b>15</b>	<b>2,665.299</b>	<b>170.023</b>	<b>14</b>	<b>2,380.315</b>	-	-	-	<b>170.023</b>	<b>14</b>	<b>2,380.315</b>

**Remarks:**

Initial Spares were procured with Aircraft Procurement, Air Force (APAF), Aircraft Weapons System funding in FY 2015 and transitioned to APAF, Aircraft Initial Spares and Repairs funding in FY 2016. Spare engines are included within the Initial Spares line.

Depot Source Of Repair (DSOR) #06-038 determined Oklahoma City-Air Logistics Complex as DSOR for KC-46 on 2006. The depot will conduct aircraft maintenance checks, software maintenance, engine maintenance, and commodities. Depot standup efforts increased significantly in FY 2021 primarily driven by standup of the Government Software Integration Lab (SIL). The timing of the increase in depot standup funding correlates to the timing of aircraft deliveries which began in Jan 2019.

Due to program delays, ICS Period 1 was extended at no cost to the government. This extension facilitated the realignment of funding for subsequent ICS Periods (2-5). ICS Period 3 awarded in June 2019 using FY 2017 funds. ICS funding requirements return to normal in FY 2020 with ICS Period 4. ICS Period 5 will be funded with FY 2021 funds.

AMC's current operational strategy is for all KC-46 aircraft to be capable of utilizing Wing Aerial Refueling Pods (WARPs), but there is currently no requirement to procure an equal number of WARPs to aircraft. Instead, the WARPs will be used on select missions, as needed. The program will procure a total of 42 WARP kits.

Flyaway cost elements (Boom ECP, AWL, LAIRCM, & AME) have been broken out to show a lower level of detail to accurately reflect the acquisition strategy and execution of these requirements.

The Support cost element Data, which existed in previous budget documentation, has been removed. The contract currently allows for Data as Not Separately Priced (NSP) Options which will be exercised along with each Aircraft Lot buy.

Unit Cost Variations: The Airframe unit cost is based on the aircraft not to exceed (NTE) amount during the KC-46 competition. These prices and projected escalation vary from year to year, leading to variability in the unit cost. In addition, fluctuations are driven by non-recurring contract costs associated with the Production of the aircraft.

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

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<b>Exhibit P-5, Cost Analysis:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 2	<b>P-1 Line Item Number / Title:</b> KC046A / KC-46A MDAP	<b>Item Number / Title [DODIC]:</b> KC-46A MDAP
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>	

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2022 Air Force							<b>Date:</b> May 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 2			<b>P-1 Line Item Number / Title:</b> KC046A / KC-46A MDAP				<b>Item Number / Title [DODIC]:</b> KC-46A MDAP				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Airframe <sup>(†)</sup>		2015	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Aug 2016	Jan 2019	7	175.504	Y		Feb 2016
Airframe <sup>(†)</sup>		2016	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Aug 2016	Jan 2019	12	170.733	Y		Feb 2016
Airframe <sup>(†)</sup>		2017	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Jan 2017	Jan 2019	15	147.728	Y		Nov 2015
Airframe <sup>(†)</sup>		2018	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Sep 2018	Aug 2019	18	144.129	Y		Oct 2016
Airframe <sup>(†)</sup>		2019	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Sep 2019	Dec 2020	15	145.990	Y		Dec 2017
Airframe <sup>(†)</sup>		2020	Boeing / Everett	C / FFP	AFLCMC/WL - Mobiity	Jan 2021	Jan 2022	12	160.562	Y		Oct 2018
Airframe <sup>(†)</sup>		2021	Boeing / Everett	C / FFP	AFLCMC/WL - Mobiity	Jan 2021	Dec 2022	15	147.710	Y		Oct 2018
Airframe <sup>(†)</sup>		2022	Boeing / Everett	C / FFP	AFLCMC/WL - Mobiity	Jan 2022	Feb 2024	14	149.132	Y		Jul 2020

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

**Remarks:**

Specs Available Now: These lots are pre-negotiated options to the KC-46 EMD contract based on the current aircraft system specification. The initial product baseline established at CDR supported the MS C decision and LRIP. Boeing is responsible for the correction of any deficiencies discovered in the KC-46 weapon system components (e.g., air vehicle, support equipment, training) during EMD to include the periods of integrated test (DT, OT, FAA, AR Cert) through IOT&E or after collection of receiver certification data for seventeen (17) receiver aircraft pairings during Phase 3 AR Cert, whichever occurs later. This product baseline will be finalized and validated at the Physical Configuration Audit Update.

Unit Cost Variations: The Airframe unit cost is based on the aircraft not to exceed (NTE) amount during the KC-46 competition. These prices and projected escalation vary from year to year, leading to variability in the unit cost. In addition, fluctuations are driven by non-recurring contract costs associated with the production of the aircraft.

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 02 / 2 **P-1 Line Item Number / Title:** KC046A / KC-46A MDAP **Item Number / Title [DODIC]:** KC-46A MDAP

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Airframe																															
1		2015	AF <sup>(1)</sup>	7	0	7																								7	
1		2016	AF <sup>(2)</sup>	12	0	12																								12	
1		2017	AF <sup>(3)</sup>	15	0	15																								15	
1		2018	AF <sup>(4)</sup>	18	0	18																								18	
1		2019	AF	15	0	15																								15	
1		2020	AF	12	0	12																								12	
1		2021	AF	15	0	15																								15	
1		2022	AF	14	0	14																								14	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 2	<b>P-1 Line Item Number / Title:</b> KC046A / KC-46A MDAP	<b>Item Number / Title [DODIC]:</b> KC-46A MDAP
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Airframe																															
1		2015	AF <sup>(1)</sup>	7	0	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6			
1		2016	AF <sup>(2)</sup>	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9			
1		2017	AF <sup>(3)</sup>	15	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			
1		2018	AF <sup>(4)</sup>	18	0	18											A -	-	-	-	-	-	-	-	-	-	3	15			
1		2019	AF	15	0	15																					A -	15			
1		2020	AF	12	0	12																						12			
1		2021	AF	15	0	15																						15			
1		2022	AF	14	0	14																						14			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 02 / 2 **P-1 Line Item Number / Title:** KC046A / KC-46A MDAP **Item Number / Title [DODIC]:** KC-46A MDAP

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020																Fiscal Year 2021												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020																Calendar Year 2021												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Airframe																																			
1	2015	AF <sup>(1)</sup>		7	1	6	-	-	-	1	1	-	-	1	1	-	-	-	-	1	-	1												0	
1	2016	AF <sup>(2)</sup>		12	3	9	1	1	1	2	1	1	-	-	1	1																		0	
1	2017	AF <sup>(3)</sup>		15	14	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		0	
1	2018	AF <sup>(4)</sup>		18	3	15	3	2	1	1	1	1	1	1	1	1	1																	0	
1	2019	AF		15	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	1	2	1	1	1	1	1	1	-	-	4		
1	2020	AF		12	0	12																												12	
1	2021	AF		15	0	15																													15
1	2022	AF		14	0	14																													14
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 02 / 2 **P-1 Line Item Number / Title:** KC046A / KC-46A MDAP **Item Number / Title [DODIC]:** KC-46A MDAP

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Airframe																															
	1	2015	AF <sup>(1)</sup>	7	7	0																							0		
	1	2016	AF <sup>(2)</sup>	12	12	0																							0		
	1	2017	AF <sup>(3)</sup>	15	15	0																							0		
	1	2018	AF <sup>(4)</sup>	18	18	0																							0		
	1	2019	AF	15	11	4	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	2		
	1	2020	AF	12	0	12	-	-	-	1	1	1	1	1	1	1	1	1	1										1		
	1	2021	AF	15	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	1	1	1	2	1	1	3	
	1	2022	AF	14	0	14				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 2	<b>P-1 Line Item Number / Title:</b> KC046A / KC-46A MDAP	<b>Item Number / Title [DODIC]:</b> KC-46A MDAP
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024												Fiscal Year 2025												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Airframe																															
1		2015	AF <sup>(1)</sup>	7	7	0																							0		
1		2016	AF <sup>(2)</sup>	12	12	0																							0		
1		2017	AF <sup>(3)</sup>	15	15	0																							0		
1		2018	AF <sup>(4)</sup>	18	18	0																							0		
1		2019	AF	15	13	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0		
1		2020	AF	12	11	1																							1		
1		2021	AF	15	12	3	1	2																					0		
1		2022	AF	14	0	14	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		2		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 2		<b>P-1 Line Item Number / Title:</b> KC046A / KC-46A MDAP
		<b>Item Number / Title [DODIC]:</b> KC-46A MDAP

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Boeing - Everett	12	15	15	0	0	0	0	0	0	4	25	29

**Remarks:**

Minimum Sustaining Rate (MSR) for production is 12 aircraft/year.

Economic Rate does not reflect 1 shift of 8 hours 5 days a week; aligns to Boeing's operating plan (2 shifts of 8 hours each 5 days a week).

Admin Lead Time to definitize Not to Exceed (NTE) production options is 18-24 months; definitization of NTE does not have to occur prior to option award.

Aircraft acceptance dates in above schedule reflect date of DD Form 250, Material Inspection and Receiving Report, not date of ferry flight from vendor's production facility to Air Force assigned operating location.

Production deliveries exceeding the 12 month period:

Boeing made a business decision to build aircraft at risk, ahead of contract award, in order to meet original contract requirements to deliver Required Assets Available (RAA) of 18 aircraft by August 2017. These 18 aircraft are part of Lot 1, Lot 2, and Lot 3. Due to continued KC-46 design changes during development, four aircraft in Lot 1 require significant change incorporation to bring them up to the production baseline. This change incorporation will delay four Lot 1 aircraft deliveries, however this will not delay the overall delivery of aircraft to the warfighter because Boeing continues to build ahead of contractual delivery dates.

The first aircraft deliveries to McConnell AFB occurred on 25 Jan 2019.

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

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

**Footnotes:**

- (1) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2019 loaded in the month of first delivery.
- (2) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2019 loaded in the month of first delivery.
- (3) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2019 loaded in the month of first delivery.
- (4) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2019 loaded in the month of first delivery.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 02: Airlift Aircraft / BSA 3: Other Airlift **P-1 Line Item Number / Title:** C130J0 / C-130J

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207224F, 0207230F, 0207237F

**Line Item MDAP/MAIS Code:** 220

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	170	4	8	1	-	1	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	15,242.340	377.156	797.131	128.896	-	128.896	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	15,242.340	377.156	797.131	128.896	-	128.896	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>15,242.340</b>	<b>377.156</b>	<b>797.131</b>	<b>128.896</b>	<b>-</b>	<b>128.896</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	70.139	83.412	88.421	2.600	-	2.600	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	89.661	94.289	99.641	128.896	-	128.896	-	-	-	-	-	-

**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). These variants are addressed in their own budget documents.

17 C-130Js were procured with National Guard, Reserve Equipment Account (NGREA) funds early in the program.

Funding for this exhibit is contained in PE 0401132F which also contains associated Research Development Test and Evaluation (RDT&E) funding.

Program funding, including Congressional Add funding, includes efforts related to, but not limited to, Diminishing Manufacturing Sources, Depot Activation, Production cut-ins, Program Management Administration, Initial Spares, and Studies and/or Risk Reduction efforts.

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

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 02: Airlift Aircraft / BSA 3: Other Airlift **P-1 Line Item Number / Title:** C130J0 / C-130J

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207224F, 0207230F, 0207237F

**Line Item MDAP/MAIS Code:** 220

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C-130J		A		170 / 15,242.340	4 / 377.156	8 / 797.131	1 / 128.896	- / -	1 / 128.896
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>170 / 15,242.340</b>	<b>4 / 377.156</b>	<b>8 / 797.131</b>	<b>1 / 128.896</b>	<b>- / -</b>	<b>1 / 128.896</b>

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

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

**Justification:**  
 FY 2022 funding supports program requirements including logistics support services, engineering support services, program management support, and Diminishing Manufacturing Sources (DMS) support. FY 2022 funding totals include 113.2M requested for Direct War and/or Enduring Requirements. No aircraft can be built post Multiyear III until critical DMS issues are addressed with this funding. Three of the critical DMS items include: C-130J mission computer, avionics management unit, and communications/navigation electronic circuit breaker panel.



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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 3	<b>P-1 Line Item Number / Title:</b> C130J0 / C-130J	<b>Item Number / Title [DODIC]:</b> C-130J

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	170	4	8	1	-	1
Gross/Weapon System Cost (\$ in Millions)	15,242.340	377.156	797.131	128.896	-	128.896
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	15,242.340	377.156	797.131	128.896	-	128.896
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>15,242.340</b>	<b>377.156</b>	<b>797.131</b>	<b>128.896</b>	<b>-</b>	<b>128.896</b>

*(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)	89.661	94.289	99.641	128.896	-	128.896

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway - Flyaway End Item Cost</b>																		
Recurring Cost																		
Airframe	68.125	170	11,581.309	81.623	4	326.494	86.130	8	689.036	-	-	-	-	-	-	-	-	-
Other Government Furnished Equipment	-	-	342.371	-	-	7.153	-	-	18.330	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>11,923.680</i>	-	-	<i>333.647</i>	-	-	<i>707.366</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	<i>11,923.680</i>	-	-	<i>333.647</i>	-	-	<i>707.366</i>	-	-	-	-	-	-	-	-	-
<b>Support - Support End Item Cost</b>																		
Airframe Peculiar Ground Support Equipment (PGSE)	-	-	23.872	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peculiar Training Equipment	-	-	275.555	-	-	-	-	-	28.719	-	-	7.279	-	-	-	-	-	7.279
Engineering and Logistics Services	-	-	65.918	-	-	6.670	-	-	-	-	-	1.203	-	-	-	-	-	1.203
Diminishing Manufacturing Sources (DMS)	-	-	251.383	-	-	4.775	-	-	1.373	-	-	113.281	-	-	-	-	-	113.281
Interim Contractor Support (ICS)	-	-	103.904	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interim Supply Support (ISS) (Spares)	-	-	930.893	-	-	18.115	-	-	49.827	-	-	-	-	-	-	-	-	-
Post Delivery Support	-	-	169.118	-	-	5.587	-	-	3.194	-	-	2.893	-	-	-	-	-	2.893
Organic Depot Support	-	-	34.110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>												<b>Date: May 2021</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 3						<b>P-1 Line Item Number / Title:</b> C130J0 / C-130J						<b>Item Number / Title [DODIC]:</b> C-130J					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
PMA Contractor Services	-	-	130.898	-	-	5.767	-	-	4.639	-	-	3.676	-	-	-	-	-	3.676
Other	-	-	1,329.186	-	-	1.122	-	-	-	-	-	-	-	-	-	-	-	-
Alternate Mission Equipment	-	-	1.356	-	-	1.087	-	-	1.424	-	-	-	-	-	-	-	-	-
Product/Other Support	-	-	2.467	-	-	0.386	-	-	0.589	-	-	0.564	-	-	-	-	-	0.564
<i>Subtotal: Support - Support End Item Cost</i>	-	-	<b>3,318.660</b>	-	-	<b>43.509</b>	-	-	<b>89.765</b>	-	-	<b>128.896</b>	-	-	-	-	-	<b>128.896</b>
<b>Gross/Weapon System Cost</b>	<b>89.661</b>	<b>170</b>	<b>15,242.340</b>	<b>94.289</b>	<b>4</b>	<b>377.156</b>	<b>99.641</b>	<b>8</b>	<b>797.131</b>	<b>128.896</b>	<b>1</b>	<b>128.896</b>	-	-	-	<b>128.896</b>	<b>1</b>	<b>128.896</b>

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 02: Airlift Aircraft / BSA 3: Other Airlift **P-1 Line Item Number / Title:** C130JM / MC-130J

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207224F, 0207237F, 0401132F

**Line Item MDAP/MAIS Code:** 257

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	59	8	4	3	-	3	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	5,477.313	976.714	411.107	266.049	-	266.049	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	492.122	126.077	56.000	46.000	-	46.000	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	4,985.191	850.637	355.107	220.049	-	220.049	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	979.622	40.000	30.000	0.000	-	0.000	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>5,964.813</b>	<b>890.637</b>	<b>385.107</b>	<b>220.049</b>	<b>-</b>	<b>220.049</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

*(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> )	75.683	94.434	84.729	86.491	-	86.491	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	92.836	122.089	102.777	88.683	-	88.683	-	-	-	-	-	-

**Description:**

HC/MC-130 Recapitalization ("Recap") produces and modifies HC/MC-130J aircraft to replace the USAF's aging legacy Combat Rescue HC-130P/N and Special Operations MC-130E/P/H aircraft, which are experiencing airworthiness, maintainability and operational limitations. The Recap program incorporates production line modifications to the C-130J common/baseline configuration to convert them to the HC/MC model, and also funds post-production modifications to add special mission systems required for behind-enemy-line operations required of Combat Rescue and Special Operations aircraft.

Beginning with the FY11 President's Budget, the HC-130 Recap and MC-130 Recap programs have been budgeted separately for improved visibility. Prior year MC-130 Recap program details are reported as part of the HC/MC Recap program. The first seven MCs were bought under the C-130J line and the next fifteen aircraft buys were purchased under the combined HC/MC-130 Recap program (a different budget line) for a total buy of 95 MC-130J aircraft.

The delivery dates for HC-130Js and MC-130Js have been adjusted to provide the AC-130J modification line with MC-130Js to allow that line to operate at peak efficiency. This was accomplished through an agreement between Air Combat Command (ACC), Air Force Special Operations Command (AFSOC), Air Force Reserves (AFR), and Air National Guard (ANG). Future changes may be required.

This AF funding request incorporates a Multiyear Procurement (MYP) for FY19 thru FY22. The MYP is part of the larger C-130J buy including Air Force, Coast Guard, and USMC. In support of the MYP, 88M of Economic Order Quantity (EOQ) funding is included in the FY19 Advance Procurement (AP) Request for FY20-FY22.

Advance procurement items are limited to components whose long-lead items require early purchase in order to reduce the overall procurement lead-time of the major end item. These long lead items include structural components, engine mounts, engine components, flap shafts, and generators. Typically 10 million Advance Procurement (AP) and 4.794 million EOQ is allocated per aircraft. However, due to Congressional Adds and changes to aircraft buy profiles, not every aircraft had advanced procurement budgeted.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0605278F.

Program funding includes but is not limited to purchase of Airframes, Engines, Government Furnished Equipment, Large Aircraft Infrared-Counter Measures (LAIRCM), Common & Peculiar production support equipment, Trainers, Pub/Tech Data, Diminishing Manufacturing Sources, Interim Contractor Support, Post Delivery Support, Spares, Data, Program Management Administration (PMA) Government Services, & other associated costs such as Depot Activation costs which permits the initiation of studies to support rapid requirement fielding activities, and allows for corrections of production deficiencies. The DSOR 17-001F was modified in 2018 to include AC/HC and MC-130J and all variants for programmed depot level maintenance (PDM) and unscheduled depot level maintenance (UDLM) on the aircraft. Depot support at Robins is primarily composed of basic airframes subject to organic depot level maintenance (e.g. programmed depot maintenance, analytical condition inspection, regular incorporation of depot

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force	<b>Date:</b> May 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 02: Airlift Aircraft / BSA 3: Other Airlift	<b>P-1 Line Item Number / Title:</b> C130JM / MC-130J
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207224F, 0207237F, 0401132F
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**Line Item MDAP/MAIS Code:** 257

level modifications/Time Compliance Technical Orders (TCTOs), etc.) This support also includes structural member, control surfaces, and other integral airframe components. This funding request will support obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.

MYP contract (MYP III) awarded in FY20 and includes aircraft procured through FY22. Prior Year per-aircraft costs are lower due to two factors: inflation, plus fact that most FY14-18 purchases were under a multi-year procurement (MYII). Economic Order Quantity (EOQ) discounts applied to most aircraft purchased during that timeframe.

Funding for this exhibit is contained in PE 0207230F.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 02: Airlift Aircraft / BSA 3: Other Airlift **P-1 Line Item Number / Title:** C130JM / MC-130J

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207224F, 0207237F, 0401132F

**Line Item MDAP/MAIS Code:** 257

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MC-130J	P-5a, P-21	A		59 / 5,477.313	8 / 976.714	4 / 411.107	3 / 266.049	- / -	3 / 266.049
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>59 / 5,477.313</b>	<b>8 / 976.714</b>	<b>4 / 411.107</b>	<b>3 / 266.049</b>	<b>- / -</b>	<b>3 / 266.049</b>

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

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

**Justification:**

The FY 2022 budget supports the procurement of 3 MC-130J aircraft and associated support requirements.

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 3	<b>P-1 Line Item Number / Title:</b> C130JM / MC-130J	<b>Item Number / Title [DODIC]:</b> MC-130J

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	59	8	4	3	-	3
Gross/Weapon System Cost (\$ in Millions)	5,477.313	976.714	411.107	266.049	-	266.049
Less PY Advance Procurement (\$ in Millions)	492.122	126.077	56.000	46.000	-	46.000
Net Procurement (P-1) (\$ in Millions)	4,985.191	850.637	355.107	220.049	-	220.049
Plus CY Advance Procurement (\$ in Millions)	979.622	40.000	30.000	0.000	-	0.000
<b>Total Obligation Authority (\$ in Millions)</b>	<b>5,964.813</b>	<b>890.637</b>	<b>385.107</b>	<b>220.049</b>	-	<b>220.049</b>

*(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)	92.836	122.089	102.777	88.683	-	88.683

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway - Flyaway End Item Cost</b>																		
Recurring Cost																		
Airframe/Engines/Accessories <sup>(†)</sup>	71.137	59	4,197.070	91.580	8	732.643	83.384	4	333.534	86.490	3	259.472	-	-	-	86.491	3	259.472
Government Furnished Equipment (GFE)	-	-	152.325	-	-	10.832	-	-	2.380	-	-	0.000	-	-	-	-	-	0.000
LAIRCM Group B	-	-	115.931	-	-	12.000	-	-	3.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<b>4,465.326</b>	-	-	<b>755.475</b>	-	-	<b>338.914</b>	-	-	<b>259.472</b>	-	-	-	-	-	<b>259.472</b>
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	<b>4,465.326</b>	-	-	<b>755.475</b>	-	-	<b>338.914</b>	-	-	<b>259.472</b>	-	-	-	-	-	<b>259.472</b>
<b>Support - Support End Item Cost</b>																		
Airframe Peculiar Ground Support Equipment (PGSE)	-	-	44.490	-	-	1.500	-	-	1.500	-	-	-	-	-	-	-	-	-
Peculiar Training Equipment	-	-	300.228	-	-	30.200	-	-	0.200	-	-	-	-	-	-	-	-	-
Publications/Technical Data	-	-	41.466	-	-	5.542	-	-	3.069	-	-	-	-	-	-	-	-	-
Diminishing Manufacturing Sources	-	-	74.338	-	-	13.127	-	-	4.606	-	-	0.000	-	-	-	-	-	0.000
Interim Contractor Support (ICS)	-	-	45.613	-	-	4.005	-	-	2.605	-	-	0.000	-	-	-	-	-	0.000
Interim Supply Support (ISS)	-	-	383.322	-	-	41.839	-	-	22.354	-	-	0.000	-	-	-	-	-	0.000

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>												<b>Date: May 2021</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 3						<b>P-1 Line Item Number / Title:</b> C130JM / MC-130J						<b>Item Number / Title [DODIC]:</b> MC-130J					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Depot Standup	-	-	23.179	-	-	2.200	-	-	2.200	-	-	2.244	-	-	-	-	-	2.244
PMA Contrator Services	-	-	25.529	-	-	8.688	-	-	4.800	-	-	2.000	-	-	-	-	-	2.000
PMA Government Services	-	-	9.470	-	-	5.557	-	-	4.500	-	-	2.333	-	-	-	-	-	2.333
Other Government Costs	-	-	12.461	-	-	7.518	-	-	6.671	-	-	0.000	-	-	-	-	-	0.000
Withholds	-	-	51.891	-	-	101.063	-	-	19.688	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	<b>1,011.987</b>	-	-	<b>221.239</b>	-	-	<b>72.193</b>	-	-	<b>6.577</b>	-	-	-	-	-	<b>6.577</b>
<b>Gross/Weapon System Cost</b>	<b>92.836</b>	<b>59</b>	<b>5,477.313</b>	<b>122.089</b>	<b>8</b>	<b>976.714</b>	<b>102.777</b>	<b>4</b>	<b>411.107</b>	<b>88.683</b>	<b>3</b>	<b>266.049</b>	-	-	-	<b>88.683</b>	<b>3</b>	<b>266.049</b>

**Remarks:**  
There are 9 MC-130Js in FY20.

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 3	<b>P-1 Line Item Number / Title:</b> C130JM / MC-130J	<b>Item Number / Title [DODIC]:</b> MC-130J
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Airframe/Engines/Accessories <sup>(†)</sup>		2018	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2017	Nov 2019	11	82.736	Y		Oct 2012
Airframe/Engines/Accessories <sup>(†)</sup>		2019	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2018	Apr 2021	6	82.384	Y		Mar 2018
Airframe/Engines/Accessories <sup>(†)</sup>		2020	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2019	Aug 2021	8	91.580	Y		Mar 2018
Airframe/Engines/Accessories <sup>(†)</sup>		2021	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2020	Jun 2023	4	83.384	Y		Mar 2018
Airframe/Engines/Accessories <sup>(†)</sup>		2022	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2021	Apr 2024	3	86.491	Y		Mar 2018

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

**Remarks:**

MYP contract (MYP III) awarded in FY20 and includes aircraft procured through FY22. Prior Year per-aircraft costs are lower due to two factors: inflation, plus fact that most FY14-18 purchases were under a multi-year procurement (MYII). Economic Order Quantity (EOQ) discounts applied to most aircraft purchased during that timeframe.



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**Exhibit P-21, Production Schedule: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 3	<b>P-1 Line Item Number / Title:</b> C130JM / MC-130J	<b>Item Number / Title [DODIC]:</b> MC-130J
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018													Fiscal Year 2019													BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Airframe/Engines/Accessories																																	
Prior Years Deliveries: 42																																	
1	2018	AF		11	0	11			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11		
1	2018	CG (+)		1	0	1			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			
1	2018	HC/MC (+)		8	0	8			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8			
1	2018	MC (+)		6	0	6			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6			
<b>1</b>	<b>2018</b>	<b>Total</b>		<b>26</b>	<b>0</b>	<b>26</b>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>26</b>			
1	2019	AF		6	0	6																								6			
1	2019	CG (+)		1	0	1																								1			
1	2019	HC/MC (+)		10	0	10																								10			
1	2019	MC (+)		3	0	3																								3			
<b>1</b>	<b>2019</b>	<b>Total</b>		<b>20</b>	<b>0</b>	<b>20</b>																								<b>20</b>			
1	2020	AF		8	0	8																								8			
1	2020	CG (+)		1	0	1																								1			
1	2020	HC/MC (+)		4	0	4																								4			
1	2020	MC (+)		3	0	3																								3			
<b>1</b>	<b>2020</b>	<b>Total</b>		<b>16</b>	<b>0</b>	<b>16</b>																								<b>16</b>			
1	2021	AF		4	0	4																								4			
1	2021	CG (+)		1	0	1																								1			
1	2021	MC (+)		5	0	5																								5			
<b>1</b>	<b>2021</b>	<b>Total</b>		<b>10</b>	<b>0</b>	<b>10</b>																								<b>10</b>			
1	2022	AF		3	0	3																								3			
1	2022	CG (+)		1	0	1																								1			
1	2022	MC (+)		6	0	6																								6			
<b>1</b>	<b>2022</b>	<b>Total</b>		<b>10</b>	<b>0</b>	<b>10</b>																								<b>10</b>			
									O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule: PB 2022 Air Force** **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 02 / 3 **P-1 Line Item Number / Title:** C130JM / MC-130J **Item Number / Title [DODIC]:** MC-130J

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2020													Fiscal Year 2021													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Airframe/Engines/Accessories																																	
Prior Years Deliveries: 42																																	
1	2018	AF		11	0	11	-	1	1	1	1	1	-	-	-	1	-	-	1	1	-	1	-	1	-	1	-	1	-	0			
1	2018	CG (+)		1	0	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2018	HC/MC (+)		8	0	8	-	-	-	-	-	-	-	1	-	-	1	1	1	-	1	1	1	1	-	-	-	-	-	0			
1	2018	MC (+)		6	0	6	1	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1	-	-	0				
<b>1</b>	<b>2018</b>	<b>Total</b>		<b>26</b>	<b>0</b>	<b>26</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>			
1	2019	AF		6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	3				
1	2019	CG (+)		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1				
1	2019	HC/MC (+)		10	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	7				
1	2019	MC (+)		3	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	0				
<b>1</b>	<b>2019</b>	<b>Total</b>		<b>20</b>	<b>0</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>11</b>			
1	2020	AF		8	0	8			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	6			
1	2020	CG (+)		1	0	1			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			
1	2020	HC/MC (+)		4	0	4			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4			
1	2020	MC (+)		3	0	3			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3			
<b>1</b>	<b>2020</b>	<b>Total</b>		<b>16</b>	<b>0</b>	<b>16</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>14</b>			
1	2021	AF		4	0	4																							4				
1	2021	CG (+)		1	0	1																							1				
1	2021	MC (+)		5	0	5																							5				
<b>1</b>	<b>2021</b>	<b>Total</b>		<b>10</b>	<b>0</b>	<b>10</b>																							<b>10</b>				
1	2022	AF		3	0	3																							3				
1	2022	CG (+)		1	0	1																							1				
1	2022	MC (+)		6	0	6																							6				
<b>1</b>	<b>2022</b>	<b>Total</b>		<b>10</b>	<b>0</b>	<b>10</b>																							<b>10</b>				
									O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule: PB 2022 Air Force** **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 02 / 3 **P-1 Line Item Number / Title:** C130JM / MC-130J **Item Number / Title [DODIC]:** MC-130J

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022													Fiscal Year 2023													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Airframe/Engines/Accessories																																	
Prior Years Deliveries: 42																																	
1	2018	AF		11	11	0																											0
1	2018	CG (†)		1	1	0																											0
1	2018	HC/MC (†)		8	8	0																											0
1	2018	MC (†)		6	6	0																											0
<b>1</b>	<b>2018</b>	<b>Total</b>		<b>26</b>	<b>26</b>	<b>0</b>																											<b>0</b>
1	2019	AF		6	3	3								1	1		1																0
1	2019	CG (†)		1	0	1										1																	0
1	2019	HC/MC (†)		10	3	7	1	1		1	1	1	1																				0
1	2019	MC (†)		3	3	0																											0
<b>1</b>	<b>2019</b>	<b>Total</b>		<b>20</b>	<b>9</b>	<b>11</b>	<b>1</b>	<b>1</b>		<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>															<b>0</b>	
1	2020	AF		8	2	6	1	1	1	1	1																						0
1	2020	CG (†)		1	0	1																										1	0
1	2020	HC/MC (†)		4	0	4																1					1					2	
1	2020	MC (†)		3	0	3						1						2														0	
<b>1</b>	<b>2020</b>	<b>Total</b>		<b>16</b>	<b>2</b>	<b>14</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>						<b>2</b>					<b>1</b>				<b>1</b>			<b>1</b>	<b>1</b>	<b>2</b>		
1	2021	AF		4	0	4																				1		1				2	
1	2021	CG (†)		1	0	1																										1	
1	2021	MC (†)		5	0	5													1				2		1	1						0	
<b>1</b>	<b>2021</b>	<b>Total</b>		<b>10</b>	<b>0</b>	<b>10</b>												<b>1</b>				<b>2</b>		<b>2</b>	<b>1</b>	<b>1</b>					<b>3</b>		
1	2022	AF		3	0	3			A																							3	
1	2022	CG (†)		1	0	1			A																							1	
1	2022	MC (†)		6	0	6			A																		1					5	
<b>1</b>	<b>2022</b>	<b>Total</b>		<b>10</b>	<b>0</b>	<b>10</b>																				<b>1</b>						<b>9</b>	
									O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule: PB 2022 Air Force** **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 02 / 3 **P-1 Line Item Number / Title:** C130JM / MC-130J **Item Number / Title [DODIC]:** MC-130J

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024														Fiscal Year 2025														BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024														Calendar Year 2025														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Airframe/Engines/Accessories																																			
Prior Years Deliveries: 42																																			
1	2018	AF		11	11	0																							0						
1	2018	CG (†)		1	1	0																							0						
1	2018	HC/MC (†)		8	8	0																							0						
1	2018	MC (†)		6	6	0																							0						
<b>1</b>	<b>2018</b>	<b>Total</b>		<b>26</b>	<b>26</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>						
1	2019	AF		6	6	0																							0						
1	2019	CG (†)		1	1	0																							0						
1	2019	HC/MC (†)		10	10	0																							0						
1	2019	MC (†)		3	3	0																							0						
<b>1</b>	<b>2019</b>	<b>Total</b>		<b>20</b>	<b>20</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>						
1	2020	AF		8	8	0	-	-	-																				0						
1	2020	CG (†)		1	1	0	-	-	-																				0						
1	2020	HC/MC (†)		4	2	2	1	-	1																				0						
1	2020	MC (†)		3	3	0	-	-	-																				0						
<b>1</b>	<b>2020</b>	<b>Total</b>		<b>16</b>	<b>14</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>							
1	2021	AF		4	2	2	-	1	-	1																			0						
1	2021	CG (†)		1	0	1	-	-	-	-																			0						
1	2021	MC (†)		5	5	0	-	-	-	-																			0						
<b>1</b>	<b>2021</b>	<b>Total</b>		<b>10</b>	<b>7</b>	<b>3</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>							
1	2022	AF		3	0	3	-	-	-	-	1																		0						
1	2022	CG (†)		1	0	1	-	-	-	-	-																		0						
1	2022	MC (†)		6	1	5	-	-	1	1	1																		0						
<b>1</b>	<b>2022</b>	<b>Total</b>		<b>10</b>	<b>1</b>	<b>9</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>0</b>						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2022 Air Force	<b>Date:</b> May 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 3	<b>P-1 Line Item Number / Title:</b> C130JM / MC-130J	<b>Item Number / Title [DODIC]:</b> MC-130J
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Lockheed Martin - Marietta GA	12	24	36	0	0	0	0	0	0	3	28	31

**Remarks:**  
 As mentioned on Page 1 of Exhibit P-40, the MC-130J production leverages the larger C-130J MYPII/MYPIII contracts that cover all C-130J variants.  
 This MC-130J P-21 (PE 0207230F), Line Item P-10, depicts the complete C-130J production line schedule.  
 On the P-5A and P-21 "AF" depicts the MC-130J and "HC/MC" depicts HC-130Js and C-130Js. MC depicts US Marine Corps KC-130J.

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

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

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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2022 Air Force							<b>Date:</b> May 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 02: Airlift Aircraft / BSA 3: Other Airlift							<b>P-1 Line Item Number / Title:</b> C130JM / MC-130J					
<b>Program Elements for Code B Items:</b> N/A							<b>Other Related Program Elements:</b> 0207224F, 0207237F, 0401132F					

**Line Item MDAP/MAIS Code:** 257

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>To Complete</b>	<b>Total</b>
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	979.622	40.000	30.000	0.000	-	0.000	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	979.622	40.000	30.000	0.000	-	0.000	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>979.622</b>	<b>40.000</b>	<b>30.000</b>	<b>0.000</b>	-	<b>0.000</b>	-	-	-	-	-	-

**Description:**

HC/MC-130 Recapitalization ("Recap") produces and modifies HC/MC-130J aircraft to replace the USAF's aging legacy Combat Rescue HC-130P/N and Special Operations MC-130E/P/H aircraft, which are experiencing airworthiness, maintainability and operational limitations. The Recap program incorporates production line modifications to the C-130J common/baseline configuration to convert them to the HC/MC model, and also funds post-production modifications to add special mission systems required for behind-enemy-line operations required of Combat Rescue and Special Operations aircraft.

Beginning with the FY11 President's Budget, the HC-130 Recap and MC-130 Recap programs have been budgeted separately for improved visibility. Prior year MC-130 Recap program details are reported as part of the HC/MC Recap program. The first seven MCs were bought under the C-130J line and the next fifteen aircraft buys were purchased under the combined HC/MC-130 Recap program (a different budget line) for a total buy of 95 MC-130J aircraft.

This AF funding request incorporates a Multiyear Procurement (MYP) for FY19 thru FY22. The MYP is part of the larger C-130J buy including Air Force, Coast Guard, and USMC. In support of the MYP, 88M of Economic Order Quantity (EOQ) funding is included in the FY19 Advance Procurement (AP) Request for FY20-FY22.

Advance procurement items are limited to components whose long lead times require purchase early in order to reduce the overall procurement lead time of the major end item. These long lead items include structural components, engine mounts, engine components, flap shafts, and generators.

Typically 10 million Advance Procurement and 4.794 million EOQ is allocated per aircraft. However, due to Congressional Adds and changes to aircraft buy profiles, not every aircraft had advanced procurement budgeted.

Funding for this exhibit is contained in PE 0207230F.

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**Exhibit P-40, Advance Procurement Budget Line Item Justification:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 02: Airlift Aircraft / BSA 3: Other Airlift **P-1 Line Item Number / Title:** C130JM / MC-130J

**Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207224F, 0207237F, 0401132F

**Line Item MDAP/MAIS Code:** 257

Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	MC-130J			59 / 979.622	8 / 40.000	4 / 30.000	3 / 0.000	- / -	3 / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>59 / 979.622</b>	<b>8 / 40.000</b>	<b>4 / 30.000</b>	<b>3 / 0.000</b>	<b>- / -</b>	<b>3 / 0.000</b>

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

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

**Justification:**  
No FY 2022 funding requested.



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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2022 Air Force					<b>Date:</b> May 2021		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 3			<b>P-1 Line Item Number / Title:</b> C130JM / MC-130J			<b>P-5 Number / Title:</b> MC-130J	
<b>First System (2022) Award Date:</b> December 2019		<b>First System (2022) Completion Date:</b> December 2021			<b>Interval Between Systems:</b> 1 Months		
<b>MC-130J</b>		<b>Production Leadtime</b> <i>(Months)</i>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2020</b> <i>(Each)</i>	<b>FY 2021</b> <i>(Each)</i>	<b>FY 2022</b> <i>(Each)</i>	
Quantity		12	59	8	4	3	
<b>Cost Elements</b>		<b>When Required</b> <i>(Months)</i>	<b>Prior Years</b> <i>(\$ M)</i>	<b>FY 2020</b> <i>(\$ M)</i>	<b>FY 2021</b> <i>(\$ M)</i>	<b>FY 2022</b> <i>(\$ M)</i>	
<b>CFE</b>							
Airframe/Engines/Accessories		12	710.122	40.000	30.000	0.000	
<i>Total: CFE</i>			710.122	40.000	30.000	0.000	
<b>EOQ</b>							
Airframe/Engines/Accessories		0	269.500	0.000	0.000	0.000	
<i>Total: EOQ</i>			269.500	0.000	0.000	0.000	
<b>Total Advance Procurement/Obligation Authority</b>			<b>979.622</b>	<b>40.000</b>	<b>30.000</b>	<b>0.000</b>	

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**Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification):** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 02 / 3	<b>P-1 Line Item Number / Title:</b> C130JM / MC-130J	<b>P-5 Number / Title:</b> MC-130J
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Cost Elements	QPA <i>(Each)</i>	FY 2022					Total Cost Request <i>(\$ M)</i>
		Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ M)</i>	Contract Forecast Date	2022 Qty <i>(Each)</i>	For FY	
<b>CFE</b>							
Airframe/Engines/Accessories	-						0.000
<i>Total: CFE</i>							<i>0.000</i>
<b>EOQ</b>							
Airframe/Engines/Accessories	-						0.000
<i>Total: EOQ</i>							<i>0.000</i>
<b>Total Advance Procurement/Obligation Authority</b>							<b>0.000</b>

**Description:**  
 HC/MC-130 Recapitalization ("Recap") produces and modifies HC/MC-130J aircraft to replace the USAF's aging legacy Combat Rescue HC-130P/N and Special Operations MC-130E/P/H aircraft, which are experiencing airworthiness, maintainability and operational limitations. The Recap program incorporates production line modifications to the C-130J common/baseline configuration to convert them to the HC/MC model, and also funds post-production modifications to add special mission systems required for behind-enemy-line operations required of Combat Rescue and Special Operations aircraft.

Beginning with the FY11 President's Budget, the HC-130 Recap and MC-130 Recap programs have been budgeted separately for improved visibility. Prior year MC-130 Recap program details are reported as part of the HC/MC Recap program. The first seven MCs were bought under the C-130J line and the next fifteen aircraft buys were purchased under the combined HC/MC-130 Recap program (a different budget line) for a total buy of 95 MC-130J aircraft.

Typically 10 million Advance Procurement and 4.794 million EOQ is allocated per aircraft. However, due to Congressional Adds and changes to aircraft buy profiles, not every aircraft had advanced procurement budgeted.

Funding for this exhibit is contained in PE 0207230F.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 03: Trainer Aircraft / BSA 1: UPT Trainers	<b>P-1 Line Item Number / Title:</b> APT000 / Advanced Trainer Replacement T-X
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> 0804701F	<b>Other Related Program Elements:</b> 0605223F
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**Line Item MDAP/MAIS Code:** 436

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.000	0.000	10.397	-	10.397	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	0.000	10.397	-	10.397	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>10.397</b>	-	<b>10.397</b>	-	-	-	-	-	-

*(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 Advanced Pilot Training (APT) program will replace the Air Education Training Commands (AETC) aging T-38C fleet with new aircraft, Ground Based Training Systems (simulators, training devices, computer based training systems, academics, etc.), Maintenance Training Systems (which will be procured via a separate contracting action), and support infrastructure currently used in the fighter /bomber advanced Specialized Undergraduate Pilot Training track as well as in the Introduction to Fighter Fundamentals program.

The APT program acquisition strategy was approved by OSD (AT&L) in early FY 2017 (December 2016). The Program completed source selection evaluations and Milestone B in September 2018 and awarded a Fixed Price Incentive Firm Indefinite Delivery /Indefinite Quantity contract to The Boeing Company on 27 September 2018. Critical Design Review was completed in August 2020. The projected finish for Developmental Test and Evaluation is September 2022, and Initial Operational Test and Evaluation is scheduled to commence in November 2023. Milestone C is currently projected for August 2023 with the first Low Rate Initial Production deliveries anticipated in July 2024.

Funding Contained in this platform's documentation directly aids AETC flying training enterprise to continue its overall Future Years Defense Program pilot production increase to reduce the USAF Pilot Shortage. 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 0804701F.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F: Aircraft Procurement, Air Force / BA 03: Trainer Aircraft / BSA 1: UPT Trainers

**P-1 Line Item Number / Title:**  
APT000 / Advanced Trainer Replacement T-X

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0804701F **Other Related Program Elements:** 0605223F

**Line Item MDAP/MAIS Code:** 436

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Advanced Trainer Replacement T-X		B		- / 0.000	- / 0.000	- / 0.000	- / 10.397	- / -	- / 10.397
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 10.397</b>	<b>- / -</b>	<b>- / 10.397</b>

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

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

**Justification:**  
This program is a new start.

FY 2022 funds will procure Common Support Equipment, Studies & Analysis, and Other Government Costs to support CY 2024 Low Rate Initial Production (LRIP) deliveries.

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 03 / 1	<b>P-1 Line Item Number / Title:</b> APT000 / Advanced Trainer Replacement T-X	<b>Item Number / Title [DODIC]:</b> Advanced Trainer Replacement T-X

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	10.397	-	10.397
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	10.397	-	10.397
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>10.397</b>	<b>-</b>	<b>10.397</b>

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Vehicles - Advanced Trainer Replacement T-7A Cost</b>																		
Recurring Cost																		
Air Vehicle	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Other Flyaway Costs	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Vehicles - Advanced Trainer Replacement T-7A Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Support - Advanced Trainer Replacement T-7A Cost</b>																		
Training	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Other Government Costs	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.812	-	-	-	-	-	1.812
Support Equipment	-	-	0.000	-	-	0.000	-	-	0.000	-	-	8.585	-	-	-	-	-	8.585
Interim Contractor Support	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - Advanced Trainer Replacement T-7A Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	10.397	-	-	-	-	-	10.397
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	10.397	-	-	-	-	-	10.397

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 1: Helicopters **P-1 Line Item Number / Title:** H0106O / MH-139A

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0102110F **Other Related Program Elements:** 0102110F

**Line Item MDAP/MAIS Code:** 562

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	8	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1.626	0.000	194.016	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1.626	0.000	194.016	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1.626</b>	<b>0.000</b>	<b>194.016</b>	<b>0.000</b>	-	<b>0.000</b>	-	-	-	-	-	-

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	18.389	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	17.670	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	24.252	-	-	-	-	-	-	-	-	-

**Description:**

The MH-139A program will replace the Air Force fleet of 63 UH-1N aircraft, which have significant capability gaps in the areas of speed, range, endurance, payload capacity, and aircraft self-protection. The Air Force intends to replace these UH-1Ns with modern helicopters that will eliminate these capability gaps, and the program will procure a comprehensive Training System. The replacement aircraft will provide vertical airlift and support the requirements of four Air Force major commands and operating agencies: Air Force Global Strike Command (AFGSC), Air Force District of Washington, Air Education and Training Command, and Air Force Materiel Command. AFGSC is the Air Force lead command and operational capability requirements sponsor. This program is an element of the Air Force's nuclear enterprise reform initiatives.

This program has associated RDT&E, AF funding in the Budget Year to provide for one-time systems engineering activities for non-developmental item (NDI) integration onto an airworthiness-certified baseline helicopter and associated testing and certifications. FY2021 RDT&E, AF funding continues to provide for live fire test and evaluation activities necessary to assess compliance with aircraft self-protection and survivability requirements. The MH-139A solution is expected to undergo operational test and evaluation beginning in FY22 to validate the aircraft's operational performance, effectiveness, and suitability.

Funding for this exhibit contained in PE 0102110F.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 1: Helicopters **P-1 Line Item Number / Title:** H0106O / MH-139A

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0102110F **Other Related Program Elements:** 0102110F

**Line Item MDAP/MAIS Code:** 562

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MH-139A		B		- / 1.626	- / 0.000	8 / 194.016	- / 0.000	- / -	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 1.626</b>	<b>- / 0.000</b>	<b>8 / 194.016</b>	<b>- / 0.000</b>	<b>- / -</b>	<b>- / 0.000</b>

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

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

**Justification:**  
No FY 2022 funding requested.



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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1	<b>P-1 Line Item Number / Title:</b> H0106O / MH-139A	<b>Item Number / Title [DODIC]:</b> MH-139A

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	8	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1.626	0.000	194.016	0.000	-	0.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	1.626	0.000	194.016	0.000	-	0.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>1.626</b>	<b>0.000</b>	<b>194.016</b>	<b>0.000</b>	<b>-</b>	<b>0.000</b>

*(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	18.389	0.000	-	0.000
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	24.252	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - MH-139 Cost																		
Recurring Cost																		
Airframe/Contractor Furnished Equipment	-	-	-	-	-	0.000	15.799	8	126.390	-	-	0.000	-	-	-	-	-	0.000
Other Flyaway Costs	-	-	-	-	-	0.000	-	-	14.970	-	-	0.000	-	-	-	-	-	0.000
<b>Subtotal: Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>141.360</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.000</b>
<b>Subtotal: Flyaway - MH-139 Cost</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>141.360</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.000</b>
Support - MH-139 Cost																		
Training	-	-	-	-	-	0.000	-	-	12.340	-	-	0.000	-	-	-	-	-	0.000
Data	-	-	-	-	-	0.000	-	-	2.902	-	-	0.000	-	-	-	-	-	0.000
Support Equipment	-	-	-	-	-	0.000	-	-	10.823	-	-	0.000	-	-	-	-	-	0.000
Site Activation Support	-	-	-	-	-	0.000	-	-	16.670	-	-	0.000	-	-	-	-	-	0.000
Other Government Costs	-	-	1.626	-	-	0.000	-	-	9.921	-	-	0.000	-	-	-	-	-	0.000
PMA Contract Services	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Subtotal: Support - MH-139 Cost</b>	<b>-</b>	<b>-</b>	<b>1.626</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>52.656</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.000</b>
<b>Gross/Weapon System Cost</b>	<b>-</b>	<b>-</b>	<b>1.626</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>24.252</b>	<b>8</b>	<b>194.016</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.000</b>

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 1: Helicopters **P-1 Line Item Number / Title:** H060WH / HH-60W

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0605229F

**Line Item MDAP/MAIS Code:** 479

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	10	12	19	14	-	14	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	633.548	850.535	1,083.909	792.221	-	792.221	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	633.548	850.535	1,083.909	792.221	-	792.221	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>633.548</b>	<b>850.535</b>	<b>1,083.909</b>	<b>792.221</b>	-	<b>792.221</b>	-	-	-	-	-	-

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	75.821	76.937	-	76.937	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	49.793	52.169	47.465	46.875	-	46.875	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	63.355	70.878	57.048	56.587	-	56.587	-	-	-	-	-	-

**Description:**

The Combat Rescue Helicopter (HH-60W) program will replace the aging HH-60G. 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 / marginal weather Combat Search and Rescue (CSAR) in order to recover downed aircrew or other isolated personnel in hostile or non-permissive environments.

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. Onboard 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, counterdrug activities, support for National Aeronautics and Space Administration flight operations, and insertion/extraction of combat forces.

The HH-60W program received approval to enter Engineering and Manufacturing Development (EMD) in June 2014. Subsequently, the Air Force awarded an EMD contract to Lockheed Martin - Sikorsky Aircraft Company to develop and procure 113 HH-60W aircraft, training systems and associated support. The program is procuring four EMD aircraft, five System Demonstration Test Article (SDTA) aircraft and one modernization test aircraft. During production, the program plans to procure 95 aircraft throughout six lots. HH-60W achieved a Milestone C decision in Sep 19, authorizing Low Rate Initial Production (LRIP) Lots 1-4, to procure 55 aircraft with FY19-22 funds. Full Rate Production (FRP), Lots 5 through 6, will procure the remaining aircraft through 2024, authorized by FRP Decision anticipated prior to the FY23 lot buy. Currently funding is available for a total procurement of 95 aircraft within the 105 program of record (includes 4 EMD, 5 SDTA, and 1 modernization test aircraft). Initial aircraft sustainment efforts will be provided by the contractor. HH-60W funding also supports Training Systems, Support Equipment, Initial Spares, Operation Site Activation, Depot Stand-Up, Direct Mission Support, Program Management Administration (PMA) activities, Other Government Costs (OGC), various studies and analysis, upgrades, future HH-60W planning activities, and potential Diminishing Manufacturing Sources (DMS) and obsolescence planning activities.

The HH-60W program is acquiring a complete Training system to include motion and non-motion simulators, virtual reality/mixed reality trainers, and other aircrew and maintenance part task training devices. It also includes Type I training, aircrew and maintenance courseware, spares, Interim Contractor Support (ICS), and support equipment.

Initial Spares were procured with Aircraft Procurement, Air Force (APAF) BA4 funding in FY19, FY20, and FY21. Spare engines are included within the Initial Spares. Starting in FY21 Initial Spares were primarily procured with APAF BA 6 while some BA4 funding was required to fund initial spares for added OCO aircraft.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 1: Helicopters		<b>P-1 Line Item Number / Title:</b> H060WH / HH-60W
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605229F
<b>Line Item MDAP/MAIS Code:</b> 479		
<p>Procurement budget was added beginning in FY21 for an accelerated quantity buy profile, capability upgrades, in-line production and enhancement packages/installs. These efforts may include, but are not limited to, the following: Distributed Aperture Infrared Counter Measure (DAIRCM), Global Positioning Satellite Anti-Jammer (GPS AJ), Degraded Visual Environment (DVE) system, Video Data Link (VDL), Blue Force Tracker 2 (BFT2), Integrated Vehicle Health Monitoring System (IVHMS), Situational Awareness Data Link/Automatic Direction Finder Removal, Electro Optical/Infrared Tactical Overlay, Radio Frequency Jammer, Electronic Flight Bags, Automated Dependent Surveillance Broadcast - In Device, and Mobile User Objective System (MUOS).</p> <p>FY21 funding totals include \$174M appropriated for Overseas Contingency Operations.</p> <p>Funding for this exhibit is contained in PE 0207229F. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 1: Helicopters **P-1 Line Item Number / Title:** H060WH / HH-60W

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0605229F

**Line Item MDAP/MAIS Code:** 479

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	HH-60W	P-5a, P-21	A		10 / 633.548	12 / 850.535	19 / 1,083.909	14 / 792.221	- / -	14 / 792.221
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>10 / 633.548</b>	<b>12 / 850.535</b>	<b>19 / 1,083.909</b>	<b>14 / 792.221</b>	<b>- / -</b>	<b>14 / 792.221</b>

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

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

**Justification:**  
 FY22 funding will procure 14 aircraft and associated support equipment, depot-stand up activity, site activation support, training, upgrades, enhancement packages, and other program management administration activities.

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>											<b>Date: May 2021</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1						<b>P-1 Line Item Number / Title:</b> H060WH / HH-60W					<b>Item Number / Title [DODIC]:</b> HH-60W				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>								
Resource Summary				Prior Years		FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	
Procurement Quantity (Units in Each)				10		12		19		14		-		14	
Gross/Weapon System Cost (\$ in Millions)				633.548		850.535		1,083.909		792.221		-		792.221	
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
Net Procurement (P-1) (\$ in Millions)				633.548		850.535		1,083.909		792.221		-		792.221	
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
<b>Total Obligation Authority (\$ in Millions)</b>				<b>633.548</b>		<b>850.535</b>		<b>1,083.909</b>		<b>792.221</b>		<b>-</b>		<b>792.221</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>															
Initial Spares (\$ in Millions)				-		0.000		75.821		76.937		-		76.937	
Gross/Weapon System Unit Cost (\$ in Millions)				63.355		70.878		57.048		56.587		-		56.587	

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway - HH-60W Cost</b>																		
Recurring Cost																		
Airframe / CFE <sup>(†)</sup>	41.245	10	412.450	41.432	12	497.181	38.545	19	732.360	37.086	14	519.210	-	-	-	37.086	14	519.210
Other Flyaway Costs	-	-	85.481	-	-	128.850	-	-	169.466	-	-	137.039	-	-	-	-	-	137.039
<i>Subtotal: Recurring Cost</i>	-	-	<i>497.931</i>	-	-	<i>626.031</i>	-	-	<i>901.826</i>	-	-	<i>656.249</i>	-	-	-	-	-	<i>656.249</i>
<i>Subtotal: Flyaway - HH-60W Cost</i>	-	-	<b>497.931</b>	-	-	<b>626.031</b>	-	-	<b>901.826</b>	-	-	<b>656.249</b>	-	-	-	-	-	<b>656.249</b>
<b>Support - HH-60W Cost</b>																		
Support Equipment	-	-	17.072	-	-	11.403	-	-	30.211	-	-	21.987	-	-	-	-	-	21.987
Training	-	-	24.136	-	-	88.549	-	-	65.384	-	-	49.230	-	-	-	-	-	49.230
Site Activation	-	-	12.597	-	-	12.681	-	-	19.069	-	-	23.247	-	-	-	-	-	23.247
Initial Spares	-	-	81.812	-	-	91.209	-	-	33.000	-	-	-	-	-	-	-	-	-
PMA Contractor Services	-	-	-	-	-	11.000	-	-	11.000	-	-	11.000	-	-	-	-	-	11.000
PMA Other Government Costs	-	-	-	-	-	6.766	-	-	-	-	-	6.399	-	-	-	-	-	6.399
Other Government Costs	-	-	-	-	-	2.896	-	-	2.479	-	-	6.710	-	-	-	-	-	6.710
Depot Standup	-	-	-	-	-	-	-	-	4.654	-	-	5.246	-	-	-	-	-	5.246
Data/Pubs	-	-	-	-	-	-	-	-	16.286	-	-	12.153	-	-	-	-	-	12.153
<i>Subtotal: Support - HH-60W Cost</i>	-	-	<b>135.617</b>	-	-	<b>224.504</b>	-	-	<b>182.083</b>	-	-	<b>135.972</b>	-	-	-	-	-	<b>135.972</b>
<b>Gross/Weapon System Cost</b>	<b>63.355</b>	<b>10</b>	<b>633.548</b>	<b>70.878</b>	<b>12</b>	<b>850.535</b>	<b>57.048</b>	<b>19</b>	<b>1,083.909</b>	<b>56.587</b>	<b>14</b>	<b>792.221</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>56.587</b>	<b>14</b>	<b>792.221</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1	<b>P-1 Line Item Number / Title:</b> H060WH / HH-60W	<b>Item Number / Title [DODIC]:</b> HH-60W
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<b>Remarks:</b> Other Government Costs includes defensive systems and product support. Depot Standup funding will be used to for required gap analysis to take place prior to depot activation.  (t) indicates the presence of a P-5a		

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**Exhibit P-5a, Procurement History and Planning:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1	<b>P-1 Line Item Number / Title:</b> H060WH / HH-60W	<b>Item Number / Title [DODIC]:</b> HH-60W
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Airframe / CFE <sup>(†)</sup>		2019	Sikorsky Aircraft / Stratford, CT	SS / FPIF	AFLCMC/WI - ISR & SOF	Sep 2019	May 2021	10	41.245	Y		Mar 2012 <sup>(1)</sup>
Airframe / CFE <sup>(†)</sup>		2020	Sikorsky Aircraft / Stratford, CT	SS / FPIF	AFLCMC/WI - ISR & SOF	Feb 2020	Apr 2022	12	41.432	Y		Mar 2012
Airframe / CFE <sup>(†)</sup>		2021	Sikorsky Aircraft / Stratford, CT	SS / FFP	AFLCMC/WI - ISR & SOF	Apr 2021	Jun 2023	19	38.545	Y		Mar 2012
Airframe / CFE <sup>(†)</sup>		2022	Sikorsky Aircraft / Stratford, CT	SS / FFP	AFLCMC/WI - ISR & SOF	Apr 2022	Jun 2024	14	37.086	Y		Mar 2012

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

**Footnotes:**

<sup>(1)</sup> All lots are contract options covered under the same contract (RFP 9 Mar 12, Award 26 Jun 14). Each lot is exercised individually.



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<b>Exhibit P-21, Production Schedule:</b> PB 2022 Air Force	<b>Date:</b> May 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1	<b>P-1 Line Item Number / Title:</b> H060WH / HH-60W	<b>Item Number / Title [DODIC]:</b> HH-60W
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019														Fiscal Year 2020												BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019														Calendar Year 2020													
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S				
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E			
Airframe / CFE																																		
1		2019	AF	10	0	10																											10	
1		2020	AF	12	0	12																												12
1		2021	AF	19	0	19																												19
1		2022	AF	14	0	14																												14

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1	<b>P-1 Line Item Number / Title:</b> H060WH / HH-60W	<b>Item Number / Title [DODIC]:</b> HH-60W
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2021														Fiscal Year 2022														B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Airframe / CFE																																			
1	2019	AF		10	0	10	-	-	-	-	-	-	-	-	1	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		
1	2020	AF		12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	6	
1	2021	AF		19	0	19																											19		
1	2022	AF		14	0	14																											14		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 04 / 1 **P-1 Line Item Number / Title:** H060WH / HH-60W **Item Number / Title [DODIC]:** HH-60W

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Airframe / CFE																															
	1	2019	AF	10	10	0																							0		
	1	2020	AF	12	6	6	1	1	1	1	1	1																	0		
	1	2021	AF	19	0	19	-	-	-	-	-	-	-	2	1	2	2	1	2	1	2	2	1	2	1				0		
	1	2022	AF	14	0	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	10	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1	<b>P-1 Line Item Number / Title:</b> H060WH / HH-60W	<b>Item Number / Title [DODIC]:</b> HH-60W
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2025												Fiscal Year 2026												BALANCE
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Airframe / CFE																															
1		2019	AF	10	10	0																							0		
1		2020	AF	12	12	0																							0		
1		2021	AF	19	19	0																							0		
1		2022	AF	14	4	10	2	1	2	2	1	2																	0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2022 Air Force	<b>Date:</b> May 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1	<b>P-1 Line Item Number / Title:</b> H060WH / HH-60W	<b>Item Number / Title [DODIC]:</b> HH-60W
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Sikorsky Aircraft - Stratford, CT	10	20	20	0	0	0	0	0	0	7	26	33

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

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 1: Helicopters **P-1 Line Item Number / Title:** V022A0 / CV-22 (MYP)

**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

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	54	-	2	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4,415.234	0.000	206.220	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	4,415.234	0.000	206.220	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>4,415.234</b>	<b>0.000</b>	<b>206.220</b>	<b>0.000</b>	-	<b>0.000</b>	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	692.867	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	66.891	-	103.110	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	81.764	-	103.110	-	-	-	-	-	-	-	-	-

**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.

Funding for this exhibit contained in PE 0401318F.

Flyaway unit cost includes recurring and non-recurring flyaway costs.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 1: Helicopters **P-1 Line Item Number / Title:** V022A0 / CV-22 (MYP)

**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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	CV-22 (MYP)	P-5a, P-21	A		54 / 4,415.234	- / 0.000	2 / 206.220	- / 0.000	- / -	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>54 / 4,415.234</b>	<b>- / 0.000</b>	<b>2 / 206.220</b>	<b>- / 0.000</b>	<b>- / -</b>	<b>- / 0.000</b>

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

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

**Justification:**  
No FY 2022 funding requested.



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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1	<b>P-1 Line Item Number / Title:</b> V022A0 / CV-22 (MYP)	<b>Item Number / Title [DODIC]:</b> CV-22 (MYP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	54	-	2	-	-	-
Gross/Weapon System Cost (\$ in Millions)	4,415.234	0.000	206.220	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4,415.234	0.000	206.220	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>4,415.234</b>	<b>0.000</b>	<b>206.220</b>	<b>0.000</b>	<b>-</b>	<b>0.000</b>

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

Initial Spares (\$ in Millions)	692.867	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	81.764	-	103.110	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway - Flyaway End Item Cost</b>																		
Recurring Cost																		
Air Frame CFE <sup>(†)</sup>	58.835	52	3,059.412	-	-	0.000	84.024	2	168.047	-	-	0.000	-	-	-	-	-	0.000
Engines/Accessories	2.504	86	215.308	-	-	-	2.208	4	8.833	-	-	-	-	-	-	-	-	-
GFE	-	-	96.623	-	-	-	14.670	2	29.340	-	-	-	-	-	-	-	-	-
Engineering Change Orders (ECO)	-	-	75.862	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	3,447.205	-	-	0.000	-	-	206.220	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	3,447.205	-	-	0.000	-	-	206.220	-	-	0.000	-	-	-	-	-	0.000
<b>Flyaway - CV-22 Cost</b>																		
Non Recurring Cost																		
Nonrecurring Tooling Cost	-	-	96.560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancillary Equipment	-	-	28.760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parts Obsolescence	-	-	39.566	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	164.886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway - CV-22 Cost</i>	-	-	164.886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Support - Support End Item Cost</b>																		
Airframe PGSE	-	-	60.714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engine PGSE	-	-	6.132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>													<b>Date:</b> May 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1						<b>P-1 Line Item Number / Title:</b> V022A0 / CV-22 (MYP)						<b>Item Number / Title [DODIC]:</b> CV-22 (MYP)						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Avionics PGSE	-	-	31.145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peculiar Training Equipment	-	-	212.206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Publications/Technical Data	-	-	54.852	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other ILS	-	-	292.888	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production Engr Support	-	-	95.882	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Common SE	-	-	49.324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	<b>803.143</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	<b>81.764</b>	<b>54</b>	<b>4,415.234</b>	-	-	<b>0.000</b>	<b>103.110</b>	<b>2</b>	<b>206.220</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>

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

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**Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1	<b>P-1 Line Item Number / Title:</b> V022A0 / CV-22 (MYP)	<b>Item Number / Title [DODIC]:</b> CV-22 (MYP)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Air Frame CFE <sup>(†)</sup>		2021	Bell Boeing / Ridley Park PA, Ft. Worth TX and Amarillo TX	SS / FPIF	NAVAIR	Mar 2021	Oct 2024	2	84.023	Y		Feb 2011

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

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 04 / 1 **P-1 Line Item Number / Title:** V022A0 / CV-22 (MYP) **Item Number / Title [DODIC]:** CV-22 (MYP)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Air Frame CFE																															
Prior Years Deliveries: 52																															
1		2021	AF		2	0	2																							2	

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 04 / 1 **P-1 Line Item Number / Title:** V022A0 / CV-22 (MYP) **Item Number / Title [DODIC]:** CV-22 (MYP)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Air Frame CFE																																	
Prior Years Deliveries: 52																																	
1	2021	AF		2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 04 / 1 **P-1 Line Item Number / Title:** V022A0 / CV-22 (MYP) **Item Number / Title [DODIC]:** CV-22 (MYP)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Air Frame CFE																																	
Prior Years Deliveries: 52																																	
1	2021	AF		2	0	2	2																						0				
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 1	<b>P-1 Line Item Number / Title:</b> V022A0 / CV-22 (MYP)	<b>Item Number / Title [DODIC]:</b> CV-22 (MYP)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Bell Boeing - Ridley Park PA, Ft. Worth TX and Amarillo TX				0	0	0	0	0	0	6	43	49

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

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 4: Mission Support Aircraft	<b>P-1 Line Item Number / Title:</b> C03700 / C-37A
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0401314F
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	2	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	159.140	0.000	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	159.140	0.000	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>159.140</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>	-	-	-	-	-	-

*(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> )	-	75.155	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	79.570	-	-	-	-	-	-	-	-	-	-

**Description:**

This line item purchased C-37 aircraft to fill approved Department of Defense operational requirements for executive airlift. The C-37 is an FAA certified commercial derivative of the Gulfstream GV/G550 twin-engine, long range, jet transport with executive interiors, a robust mission communications suite, and self-defense systems to support the worldwide travel needs of high-ranking United States government officials including the Vice President, Cabinet, Combatant Commanders, and Congress. The C-37 is designed to transport 12 passengers 5,500 nautical miles and has a designed service life of 40,000 flying hours.

C-37 funding also supported Program Management Administration (PMA) activities, Advisory & Assistance Services (A&AS), Other Government Costs (OGC), and interim supply support for additional aircraft and support equipment.

FY20 funding purchased two C-37B (military derivative of G550) aircraft to replace C-20B (Gulfstream III) aircraft that retired in 2017.

Funding for this exhibit contained in PE 0401314F.

**Justification:**

No FY 2022 funding requested.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 4: Mission Support Aircraft	<b>P-1 Line Item Number / Title:</b> CAPAC0 / Civil Air Patrol A/C
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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: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	4	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	11.000	11.200	2.813	-	2.813	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	11.000	11.200	2.813	-	2.813	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>11.000</b>	<b>11.200</b>	<b>2.813</b>	-	<b>2.813</b>	-	-	-	-	-	-

*(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> )	-	2.750	-	-	-	-	-	-	-	-	-	-

**Description:**

The Civil Air Patrol (CAP) is a Congressionally chartered non-profit corporation that serves as the Auxiliary of the Air Force. CAP uses federally provided resources to provide assistance requested by the DoD, federal, state or local government authorities and non-governmental organizations (NGOs) to perform emergency or non-emergency public purpose missions and activities.

Pursuant to US Code (Title 10 & 36) the purpose of CAP Corporation is to encourage and aid citizens of the US in contributing their efforts, services, and resources in developing aviation and in maintaining air supremacy; and to encourage and develop, by example, the voluntary contribution of private citizens to the public welfare.

CAP provides aviation education and training, as well as encourages and fosters civil aviation in local communities. CAP also provides an organization to assist in meeting local emergencies and assists the Dept. of the Air Force in non-combat program/missions.

This program has no initial spares cost. The weapon system cost, flyaway unit cost, and weapon system unit cost do not apply.

Funding for this exhibit contained in PE 0901223F.

**Justification:**

FY22 funding of \$2.869M funds the procurement of fixed-wing single engine aircraft equipped with satellite digital imaging systems, automatic direction finder, emergency locator transmitter, FM radio, camera port window, ground power unit, appropriate training material, and/or additional associated mission equipment for use on Civil Air Patrol aircraft (e.g., full-motion video sensors, communication equipment, or other imaging systems).

Aircraft make, model, or type and quantities (typically, but not limited to Cessna-172, Cessna-182, and Cessna-206, and glider aircraft) procured during execution are a continuing requirement, but may change based on critical equipment needed to support evolving mission requirements, market availability, and budget changes due to mark-ups, fall-out funds availability, or cost fluctuations.

AF central procurement processes are not applicable.

CAP's procurement processes/standards are described in 2 CFR 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards; and Department of Defense Grant & Agreement Regulations.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 4: Mission Support Aircraft		<b>P-1 Line Item Number / Title:</b> CAPAC0 / Civil Air Patrol A/C
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

Note: The budgeted quantity for FY2022 is 4.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft	<b>P-1 Line Item Number / Title:</b> 10TRGT / Target Drones
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	35	38	22	-	22	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	429.414	130.837	133.273	116.169	-	116.169	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	429.414	130.837	133.273	116.169	-	116.169	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>429.414</b>	<b>130.837</b>	<b>133.273</b>	<b>116.169</b>	<b>-</b>	<b>116.169</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	0.589	0.600	0.600	-	0.600	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	3.738	3.507	5.280	-	5.280	-	-	-	-	-	-

**Description:**

Full-scale Aerial Targets (FSAT) and Subscale Aerial Targets (SSAT) assure warfighters' weapon systems will perform effectively against real-world enemy fighters and cruise missiles. Aerial targets provide adherence to Public Law Title 10, Section 2366 "Live Fire/Lethality" developmental/operational test requirements. Target drones are used to validate operational missile/weapon system effectiveness and fighter Operational Flight Program (OFP) updates. Targets are essential for development testing/operational testing for all air-to-air (e.g., AMRAAM, AIM-9X, etc.) and surface-to-air missiles (e.g. PAC 3, FIM 92 Stinger), and for the F-22A, F-35, F-18, F-16, F-15, among other aircraft. The objective is to provide threat realistic targets for missile testing to enable the development of offensive counter-air systems (air-to-air and surface-to-air) capable of defeating changing enemy airborne threats. This program provides funding for the procurement of Air Force Subscale Aerial Targets (BQM-167A - AFSAT), Full-scale Aerial Targets (QF-16 - FSAT), Target Control System (TCS), scoring systems, associated warranties, and includes procurement of mission/support equipment. The TCS program ensures software interoperability among service ranges, the encryption of range/aircraft data links, and associated communication devices. Funding also provides for capabilities to meet current and future threats. Funding may be utilized for analysis and presentation of evolving threat scenarios and target area environments related to emerging threats. Funds may be used to requalify production lines, or qualify new ones, as needed. Funds support procurement of hardware and software to support the fielding of new Target Control System to support the gaps identified by ACC in order to enable realistic emulation of 5th and 6th generation enemy threats. Aerial targets and associated systems are required for congressionally mandated testing and Air Force developmental and operational testing. Air Force is the designated executive agent for full-scale aerial targets. The Navy is the lead service for subscale aerial targets.

This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Funding may be used to address production Diminishing Manufacturing Sources and Material Shortages (DMSMS)/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement and qualification activities to preserve future production capabilities and capacities.

The FY2022 funding request was reduced by \$9.500 million to account for the availability of prior year execution balances

Funding for this exhibit contained in PE 0305116F.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft **P-1 Line Item Number / Title:** 10TRGT / Target Drones

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

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	835160 AFSAT	P-5a, P-21	A		- / 36.400	35 / 35.135	25 / 28.193	10 / 18.888	- / -	10 / 18.888
P-5	Target Drones		A		- / -	- / 2.543	- / 2.584	- / 0.000	- / 0.000	- / 0.000
P-5	QF-16	P-5a, P-21	A		- / 393.014	- / 93.159	13 / 102.496	12 / 97.281	- / 0.000	12 / 97.281
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 429.414</b>	<b>35 / 130.837</b>	<b>38 / 133.273</b>	<b>22 / 116.169</b>	<b>- / -</b>	<b>22 / 116.169</b>

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

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

**Justification:**  
 FY22 AFSAT funds will be used to procure 10 USAF production assets, support equipment, sustaining, production and diminishing manufacturing engineering support.  
 FY22 QF-16 funds will be used to procure 12 USAF production assets, support equipment, sustaining, production and diminishing manufacturing engineering support.  
 Note: Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S. Code Section 2308 BUY-TO-BUDGET ACQUISITION.

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 10TRGT / Target Drones	<b>Item Number / Title [DODIC]:</b> 835160 AFSAT

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	35	25	10	-	10
Gross/Weapon System Cost (\$ in Millions)	36.400	35.135	28.193	18.888	-	18.888
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	36.400	35.135	28.193	18.888	-	18.888
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>36.400</b>	<b>35.135</b>	<b>28.193</b>	<b>18.888</b>	<b>-</b>	<b>18.888</b>

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

Initial Spares (\$ in Millions)	-	0.589	0.600	0.600	0.000	0.600
Gross/Weapon System Unit Cost (\$ in Millions)	-	1.004	1.128	1.889	-	1.889

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - AFSAT Cost																		
Recurring Cost																		
BQM-167 Production Article <sup>(t)</sup>	1.040	35	36.400	0.963	35	33.688	1.066	25	26.649	1.650	10	16.502	-	-	-	1.650	10	16.502
<i>Subtotal: Recurring Cost</i>	-	-	36.400	-	-	33.688	-	-	26.649	-	-	16.502	-	-	-	-	-	16.502
<i>Subtotal: Flyaway - AFSAT Cost</i>	-	-	<b>36.400</b>	-	-	<b>33.688</b>	-	-	<b>26.649</b>	-	-	<b>16.502</b>	-	-	-	-	-	<b>16.502</b>
Logistics - AFSAT Cost																		
Recurring Cost																		
Production Support	-	-	-	-	-	0.098	-	-	0.100	-	-	0.474	-	-	-	-	-	0.474
Government Support	-	-	-	-	-	0.742	-	-	0.766	-	-	0.786	-	-	-	-	-	0.786
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<b>0.840</b>	-	-	<b>0.866</b>	-	-	<b>1.260</b>	-	-	-	-	-	<b>1.260</b>
<i>Subtotal: Logistics - AFSAT Cost</i>	-	-	-	-	-	<b>0.840</b>	-	-	<b>0.866</b>	-	-	<b>1.260</b>	-	-	-	-	-	<b>1.260</b>
Support - AFSAT Cost																		
PMA Contractor Services	-	-	-	-	-	0.582	-	-	0.601	-	-	1.047	-	-	-	-	-	1.047
PMA Other Government Costs	-	-	-	-	-	0.025	-	-	0.077	-	-	0.079	-	-	-	-	-	0.079
<i>Subtotal: Support - AFSAT Cost</i>	-	-	-	-	-	<b>0.607</b>	-	-	<b>0.678</b>	-	-	<b>1.126</b>	-	-	-	-	-	<b>1.126</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>36.400</b>	<b>1.004</b>	<b>35</b>	<b>35.135</b>	<b>1.128</b>	<b>25</b>	<b>28.193</b>	<b>1.889</b>	<b>10</b>	<b>18.888</b>	-	-	-	<b>1.889</b>	<b>10</b>	<b>18.888</b>

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

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**Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 10TRGT / Target Drones	<b>Item Number / Title [DODIC]:</b> 835160 AFSAT
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
BQM-167 Production Article <sup>(†)</sup>		2019	Kratos, Unmanned Aerial Systems (UAS) / Sacramento, CA	SS / FFP	Eglin AFB	Mar 2019	Mar 2020	35	0.963	Y		Aug 2016
BQM-167 Production Article <sup>(†)</sup>		2020	Kratos, Unmanned Aerial Systems (UAS) / Sacramento, CA	SS / FFP	Eglin AFB	Mar 2020	Mar 2021	35	0.963	Y		Aug 2016
BQM-167 Production Article <sup>(†)</sup>		2021	Kratos, Unmanned Aerial Systems (UAS) / Sacramento, CA	SS / FFP	Eglin AFB	Sep 2021	Sep 2022	25	1.066	Y		Mar 2020
BQM-167 Production Article <sup>(†)</sup>		2022	Kratos, Unmanned Aerial Systems (UAS) / Sacramento, CA	SS / FFP	Eglin AFB	Mar 2022	Mar 2023	10	1.650	Y		Mar 2020

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

**Remarks:**

**CURRENT CONTRACTS:**

- Lot 15 (Qty 35) Awarded with FY19 funds
- Lot 16 (Qty 35) Awarded with FY20 funds

**FOLLOW-ON PRODUCTION CONTRACT:**

- Lots 17-21 production contract (5 Ordering Periods).
- Lot 17 (Qty 20) Awarding with FY21 funds
  - Lot 18 (Qty 10) Awarding with FY22 funds
  - Lot 19 (Qty 17) Awarding with FY23 funds
  - Lot 20 (Qty 16) Awarding with FY24 funds
  - Lot 21 (Qty 16) Awarding with FY25 funds

- Unit cost based on quantity price bands (follow-on will use pricing curve)
- Specs available due to Pre Priced options in multi- year contract





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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 10TRGT / Target Drones	<b>Item Number / Title [DODIC]:</b> 835160 AFSAT
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
BQM-167 Production Article																															
1		2019	AF	35	20	15	3	3	3	3	3																		0		
1		2020	AF	35	0	35	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	2	3						0		
1		2021	AF	25	0	25												A	-	-	-	-	-	-	-	-	2	23			
1		2022	AF	10	0	10																						10			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 04 / 5 **P-1 Line Item Number / Title:** 10TRGT / Target Drones **Item Number / Title [DODIC]:** 835160 AFSAT

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023														Fiscal Year 2024														BALANCE
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
BQM-167 Production Article																																			
1		2019	AF	35	35	0																							0						
1		2020	AF	35	35	0																							0						
1		2021	AF	25	2	23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0						
1		2022	AF	10	0	10	-	-	-	-	-	2	2	2	2	2												0							
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 10TRGT / Target Drones	<b>Item Number / Title [DODIC]:</b> 835160 AFSAT
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Kratos, Unmanned Aerial Systems (UAS) - Sacramento, CA	10	25	35	0	0	0	0	0	0	6	12	18

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

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

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 10TRGT / Target Drones	<b>Item Number / Title [DODIC]:</b> Target Drones

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	2.543	2.584	0.000	0.000	0.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	2.543	2.584	0.000	0.000	0.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	<b>2.543</b>	<b>2.584</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Target Control System Cost																		
Recurring Cost																		
Data Link System - replacement	-	-	-	-	-	2.543	-	-	2.584	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.543	-	-	2.584	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware - Target Control System Cost</i>	-	-	-	-	-	2.543	-	-	2.584	-	-	0.000	-	-	0.000	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	2.543	-	-	2.584	-	-	0.000	-	-	0.000	-	-	0.000

**Remarks:**

Production funding required to procure hardware and software to support the fielding of new Target Control System to support the gaps identified by ACC in order to enable realistic emulation of 5th and 6th generation enemy threats.

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>													<b>Date: May 2021</b>								
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5						<b>P-1 Line Item Number / Title:</b> 10TRGT / Target Drones						<b>Item Number / Title [DODIC]:</b> QF-16									
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>												
<b>Resource Summary</b>				<b>Prior Years</b>			<b>FY 2020</b>			<b>FY 2021</b>			<b>FY 2022 Base</b>			<b>FY 2022 OCO</b>			<b>FY 2022 Total</b>		
Procurement Quantity (Units in Each)				-			-			13			12			-			12		
Gross/Weapon System Cost (\$ in Millions)				393.014			93.159			102.496			97.281			0.000			97.281		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				393.014			93.159			102.496			97.281			0.000			97.281		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
<b>Total Obligation Authority (\$ in Millions)</b>				<b>393.014</b>			<b>93.159</b>			<b>102.496</b>			<b>97.281</b>			<b>0.000</b>			<b>97.281</b>		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Millions)				-			-			7.884			8.107			-			8.107		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
<b>Cost Elements</b>		<b>Prior Years</b>			<b>FY 2020</b>			<b>FY 2021</b>			<b>FY 2022 Base</b>			<b>FY 2022 OCO</b>			<b>FY 2022 Total</b>				
		<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>		
Flyaway - QF-16 Cost																					
Recurring Cost																					
QF-16 Drone Peculiar Equipment <sup>(†)</sup>		4.181	94	393.014	-	-	66.857	3.180	13	41.338	3.116	12	37.392	-	-	0.000	3.116	12	37.392		
<i>Subtotal: Recurring Cost</i>		-	-	393.014	-	-	66.857	-	-	41.338	-	-	37.392	-	-	0.000	-	-	37.392		
Non Recurring Cost																					
Aircraft Vehicle Regeneration		-	-	-	-	-	10.058	-	-	28.009	-	-	26.670	-	-	0.000	-	-	26.670		
Engine Regeneration		-	-	-	-	-	1.872	-	-	13.982	-	-	13.136	-	-	0.000	-	-	13.136		
<i>Subtotal: Non Recurring Cost</i>		-	-	-	-	-	11.930	-	-	41.991	-	-	39.806	-	-	0.000	-	-	39.806		
<i>Subtotal: Flyaway - QF-16 Cost</i>		-	-	393.014	-	-	78.787	-	-	83.329	-	-	77.198	-	-	0.000	-	-	77.198		
Hardware - QF-16 Cost																					
Recurring Cost																					
Storage/Shipment		-	-	-	-	-	0.100	-	-	0.103	-	-	0.105	-	-	0.000	-	-	0.105		
GFP Support		-	-	-	-	-	10.706	-	-	13.264	-	-	15.236	-	-	0.000	-	-	15.236		
Other Support		-	-	-	-	-	0.000	-	-	2.101	-	-	1.915	-	-	0.000	-	-	1.915		
<i>Subtotal: Recurring Cost</i>		-	-	-	-	-	10.806	-	-	15.468	-	-	17.256	-	-	0.000	-	-	17.256		
<i>Subtotal: Hardware - QF-16 Cost</i>		-	-	-	-	-	10.806	-	-	15.468	-	-	17.256	-	-	0.000	-	-	17.256		
Logistics - QF-16 Cost																					
Recurring Cost																					

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>												<b>Date:</b> May 2021					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5						<b>P-1 Line Item Number / Title:</b> 10TRGT / Target Drones						<b>Item Number / Title [DODIC]:</b> QF-16					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support Equipment	-	-	-	-	-	0.247	-	-	0.254	-	-	0.261	-	-	0.000	-	-	0.261
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.247	-	-	0.254	-	-	0.261	-	-	0.000	-	-	0.261
<i>Subtotal: Logistics - QF-16 Cost</i>	-	-	-	-	-	0.247	-	-	0.254	-	-	0.261	-	-	0.000	-	-	0.261
Support - QF-16 Cost																		
PMA Contractor Services	-	-	-	-	-	0.953	-	-	1.526	-	-	1.566	-	-	0.000	-	-	1.566
PMA Other Government Costs	-	-	-	-	-	2.366	-	-	1.919	-	-	1.000	-	-	0.000	-	-	1.000
<i>Subtotal: Support - QF-16 Cost</i>	-	-	-	-	-	3.319	-	-	3.445	-	-	2.566	-	-	0.000	-	-	2.566
<b>Gross/Weapon System Cost</b>	-	-	<b>393.014</b>	-	-	<b>93.159</b>	<b>7.884</b>	<b>13</b>	<b>102.496</b>	<b>8.107</b>	<b>12</b>	<b>97.281</b>	-	-	<b>0.000</b>	<b>8.107</b>	<b>12</b>	<b>97.281</b>

**Remarks:**  
Unit price for follow-on production contract (Lots 6-8) is currently an estimate. The contract for Lots 1-5 reflects competitive pricing; follow-on production is sole-source.

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

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**Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 10TRGT / Target Drones	<b>Item Number / Title [DODIC]:</b> QF-16
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
QF-16 Drone Peculiar Equipment <sup>(†)</sup>		2014	The Boeing Company / St Louis MO	C / FFP	Eglin AFB	May 2014	Jan 2017	19	1.192	Y		Jun 2009
QF-16 Drone Peculiar Equipment <sup>(†)</sup>		2015	The Boeing Company / St Louis MO	C / FFP	Eglin AFB	Mar 2015	Jul 2019	25	1.122	Y		Jun 2009
QF-16 Drone Peculiar Equipment <sup>(†)</sup>		2016	The Boeing Company / St Louis MO	C / FFP	Eglin AFB	Mar 2016	Jun 2020	25	1.129	Y		Jun 2009
QF-16 Drone Peculiar Equipment <sup>(†)</sup>		2017	The Boeing Company / St Louis MO	C / FFP	Eglin AFB	Mar 2017	Nov 2021	13	1.353	Y		Jun 2009
QF-16 Drone Peculiar Equipment <sup>(†)</sup>		2018	The Boeing Company / St Louis MO	C / FFP	Eglin AFB	Nov 2017	Jun 2022	12	0.921	Y		Jan 2017
QF-16 Drone Peculiar Equipment <sup>(†)</sup>		2021	The Boeing Company / St Louis MO	SS / FPIF	Eglin AFB	Sep 2021	Apr 2023	13	3.180	Y		Jun 2019
QF-16 Drone Peculiar Equipment <sup>(†)</sup>		2022	The Boeing Company / St Louis MO	SS / FPIF	Eglin AFB	Jun 2022	Apr 2024	12	3.116	Y		Jun 2019

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

**Remarks:**

- Contract quantities include United States Air Force (USAF) only

**CURRENT CONTRACT:**

-Lot 4 (Qty 25) Awarded with FY16 funds

-Lot 5 split into 5A (FY17) and 5B (FY18): Negotiated rebaselined production schedule to include preserving Lot 5 competitive pricing; Lot 5A awarded with FY17 funds for 13 USAF tails; Lot 5B awarded with FY18 funds for 12 USAF tails. Lot 5B funding risk included in Lot 5A.

**FOLLOW-ON PRODUCTION CONTRACT:**

Lots 6-8 production contract (base year plus 2 option years)

-Lot 6 (Qty 12) Awarding with FY21 funds

-Lot 7 (Qty 12) Awarding with FY22 funds



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**Exhibit P-21, Production Schedule: PB 2022 Air Force** **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 04 / 5 **P-1 Line Item Number / Title:** 10TRGT / Target Drones **Item Number / Title [DODIC]:** QF-16

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
QF-16 Drone Peculiar Equipment																															
	1	2014	AF <sup>(1)</sup>	19	0	19																							19		
	1	2014	NAVY <sup>(‡)</sup> (2)	2	0	2																							2		
	<b>1</b>	<b>2014</b>	<b>Total</b>	<b>21</b>	<b>0</b>	<b>21</b>																						<b>21</b>			
	1	2015	AF <sup>(3)</sup>	25	0	25																						25			
	1	2016	AF	25	0	25																						25			
	1	2016	NAVY <sup>(‡)</sup>	5	0	5																						5			
	<b>1</b>	<b>2016</b>	<b>Total</b>	<b>30</b>	<b>0</b>	<b>30</b>																						<b>30</b>			
	1	2017	AF	13	0	13																						13			
	1	2017	NAVY <sup>(‡)</sup>	5	0	5																						5			
	<b>1</b>	<b>2017</b>	<b>Total</b>	<b>18</b>	<b>0</b>	<b>18</b>																						<b>18</b>			
	1	2018	AF	12	0	12																						12			
	1	2021	AF	13	0	13																						13			
	1	2022	AF	12	0	12																						12			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 04 / 5 **P-1 Line Item Number / Title:** 10TRGT / Target Drones **Item Number / Title [DODIC]:** QF-16

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016													Fiscal Year 2017												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
QF-16 Drone Peculiar Equipment																																
1		2014	AF <sup>(1)</sup>	19	0	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2				
1		2014	NAVY <sup>(‡)</sup> (2)	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
<b>1</b>		<b>2014</b>	<b>Total</b>	<b>21</b>	<b>0</b>	<b>21</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>2</b>				
1		2015	AF <sup>(3)</sup>	25	0	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25					
1		2016	AF	25	0	25																					25					
1		2016	NAVY <sup>(‡)</sup>	5	0	5																					5					
<b>1</b>		<b>2016</b>	<b>Total</b>	<b>30</b>	<b>0</b>	<b>30</b>																					<b>30</b>					
1		2017	AF	13	0	13																					13					
1		2017	NAVY <sup>(‡)</sup>	5	0	5																					5					
<b>1</b>		<b>2017</b>	<b>Total</b>	<b>18</b>	<b>0</b>	<b>18</b>																					<b>18</b>					
1		2018	AF	12	0	12																					12					
1		2021	AF	13	0	13																					13					
1		2022	AF	12	0	12																					12					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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**Exhibit P-21, Production Schedule: PB 2022 Air Force** **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 04 / 5 **P-1 Line Item Number / Title:** 10TRGT / Target Drones **Item Number / Title [DODIC]:** QF-16

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018													Fiscal Year 2019													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
QF-16 Drone Peculiar Equipment																																	
	1	2014	AF <sup>(1)</sup>	19	17	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
	1	2014	NAVY <sup>(‡)</sup> (2)	2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
	<b>1</b>	<b>2014</b>	<b>Total</b>	<b>21</b>	<b>19</b>	<b>2</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>2</b>				
	1	2015	AF <sup>(3)</sup>	25	0	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	15			
	1	2016	AF	25	0	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25			
	1	2016	NAVY <sup>(‡)</sup>	5	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5			
	<b>1</b>	<b>2016</b>	<b>Total</b>	<b>30</b>	<b>0</b>	<b>30</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>30</b>				
	1	2017	AF	13	0	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13			
	1	2017	NAVY <sup>(‡)</sup>	5	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5			
	<b>1</b>	<b>2017</b>	<b>Total</b>	<b>18</b>	<b>0</b>	<b>18</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>18</b>				
	1	2018	AF	12	0	12		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12			
	1	2021	AF	13	0	13																								13			
	1	2022	AF	12	0	12																								12			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 04 / 5 **P-1 Line Item Number / Title:** 10TRGT / Target Drones **Item Number / Title [DODIC]:** QF-16

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2020													Fiscal Year 2021													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
QF-16 Drone Peculiar Equipment																																	
1		2014	AF <sup>(1)</sup>	19	17	2	-	-	-	1	-	-	-	-	-	-	-	-	1												0		
1		2014	NAVY <sup>(‡)</sup> (2)	2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-												0		
<b>1</b>		<b>2014</b>	<b>Total</b>	<b>21</b>	<b>19</b>	<b>2</b>	-	-	-	<b>1</b>	-	-	-	-	-	-	-	-	<b>1</b>											<b>0</b>			
1		2015	AF <sup>(3)</sup>	25	10	15	-	-	-	1	1	1	2	1	1	2	-	1	-	2	1	-	1	1						0			
1		2016	AF	25	0	25	-	-	-	-	-	-	-	1	1	-	2	-	1	1	1	1	3	2	2	2	2	2	2	2			
1		2016	NAVY <sup>(‡)</sup>	5	0	5	-	-	-	-	-	-	-	-	-	1	-	1	1	1	1	-	-	-	-	-	-	-	-	0			
<b>1</b>		<b>2016</b>	<b>Total</b>	<b>30</b>	<b>0</b>	<b>30</b>	-	-	-	-	-	-	-	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>				
1		2017	AF	13	0	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13			
1		2017	NAVY <sup>(‡)</sup>	5	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5			
<b>1</b>		<b>2017</b>	<b>Total</b>	<b>18</b>	<b>0</b>	<b>18</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>18</b>				
1		2018	AF	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12			
1		2021	AF	13	0	13																								13			
1		2022	AF	12	0	12																								12			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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**Exhibit P-21, Production Schedule: PB 2022 Air Force** **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 04 / 5 **P-1 Line Item Number / Title:** 10TRGT / Target Drones **Item Number / Title [DODIC]:** QF-16

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
QF-16 Drone Peculiar Equipment																															
1		2014	AF <sup>(1)</sup>	19	19	0																							0		
1		2014	NAVY <sup>(‡)</sup> (2)	2	2	0																							0		
<b>1</b>		<b>2014</b>	<b>Total</b>	<b>21</b>	<b>21</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>		
1		2015	AF <sup>(3)</sup>	25	25	0																							0		
1		2016	AF	25	23	2	2																						0		
1		2016	NAVY <sup>(‡)</sup>	5	5	0	-																						0		
<b>1</b>		<b>2016</b>	<b>Total</b>	<b>30</b>	<b>28</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>		
1		2017	AF	13	0	13	-	2	2	2	2	2	1																0		
1		2017	NAVY <sup>(‡)</sup>	5	0	5	-	-	-	1	1	1	1																0		
<b>1</b>		<b>2017</b>	<b>Total</b>	<b>18</b>	<b>0</b>	<b>18</b>	-	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>		
1		2018	AF	12	0	12	-	-	-	-	-	-	-	2	2	2	2	2	2										0		
1		2021	AF	13	0	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	7		
1		2022	AF	12	0	12								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 04 / 5 **P-1 Line Item Number / Title:** 10TRGT / Target Drones **Item Number / Title [DODIC]:** QF-16

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024												Fiscal Year 2025												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
QF-16 Drone Peculiar Equipment																															
	1	2014	AF <sup>(1)</sup>	19	19	0																							0		
	1	2014	NAVY <sup>(‡)</sup> (2)	2	2	0																							0		
	<b>1</b>	<b>2014</b>	<b>Total</b>	<b>21</b>	<b>21</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>		
	1	2015	AF <sup>(3)</sup>	25	25	0																							0		
	1	2016	AF	25	25	0																							0		
	1	2016	NAVY <sup>(‡)</sup>	5	5	0																							0		
	<b>1</b>	<b>2016</b>	<b>Total</b>	<b>30</b>	<b>30</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>		
	1	2017	AF	13	13	0																							0		
	1	2017	NAVY <sup>(‡)</sup>	5	5	0																							0		
	<b>1</b>	<b>2017</b>	<b>Total</b>	<b>18</b>	<b>18</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>		
	1	2018	AF	12	12	0																							0		
	1	2021	AF	13	6	7	1	1	1	1	1	2																	0		
	1	2022	AF	12	0	12	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1					0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2022 Air Force	<b>Date:</b> May 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 10TRGT / Target Drones	<b>Item Number / Title [DODIC]:</b> QF-16
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	The Boeing Company - St Louis MO	12	15	24	0	0	0	0	0	0	9	22	31

**Remarks:**  
- Lot 3 through Lot 5 deliveries extend past 12 months due to schedule delays.

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

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

**Footnotes:**  
 (1) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2019 loaded in the month of first delivery.  
 (2) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2019 loaded in the month of first delivery.  
 (3) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2019 loaded in the month of first delivery.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft	<b>P-1 Line Item Number / Title:</b> 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: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	1	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	450.674	114.095	159.867	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	450.674	114.095	159.867	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>450.674</b>	<b>114.095</b>	<b>159.867</b>	<b>0.000</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	10.805	10.985	65.624	-	65.624	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	114.095	-	-	-	-	-	-	-	-	-	-

**Description:**

COMPASS CALL is the Air Force's wide-area, standoff, Airborne Electronic 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 electronic battlespace and is a key active component in the information battlespace and prosecution of Overseas Contingency Operations (OCO). COMPASS CALL's sophisticated electronic 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 cyclic schedule.

The current COMPASS CALL program of record as of Q2 FY2021 includes the following resources: ten (10) 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). Four (4) EC-130H aircraft have been divested between FY2018 and FY2020. One (1) EC-130H will retire in 4Q FY2021. An additional two (2) EC-130H aircraft will retire in FY2022, the first in 1Q, the second in 2Q. Due to the age of the EC-130H fleet (average is 46 years) the re-hosting of the Prime Mission Equipment (PME) is crucial to ensuring the survival of this critical capability.

On 23 March 2016, a Doctrine, Organization, Training, materiel, Leadership & Education, Personnel, Facilities (DOTmLPE) Change Recommendation (DCR) was approved. This requirement drives the re-hosting of Compass Call PME from the EC-130H to a modern, more cost-effective, survivable and operationally suitable commercial derivative aircraft which meets the range, speed, endurance and operating altitude needs of the combatant commands in an Anti-Access/Area Denial (A2AD) environment. As a result, in FY2017, the Compass Call re-host program was initiated to begin the transition to the EC-37B platform. 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 (STC) for airworthiness. The platform will undergo modifications to host Compass Call's PME and antenna arrays and receive additional STCs and Military Type Certificates (MTC). The EC-37B aircraft utilize PME harvested from the MBL2 EC-130H aircraft and upgraded to the latest Baseline. The EC-37B program is highly concurrent with developmental and procurement activities occurring in parallel.

Transitioning to the re-host effort, the program of record has procured six (6) new commercial derivative aircraft to date. The first five (5) EC-37B aircraft procured in FY2017-FY2020 will be configured with Baseline 3 (BL3) PME. These aircraft will receive PME from legacy donor EC-130H aircraft, as well as new and updated PME. The sixth EC-37B aircraft procured in FY2021 will be the first Baseline 4 (BL4) configured aircraft. In FY2022, the Compass Call program has deferred procurement of the seventh EC-37B aircraft, associated installations, and PME kit buy and realigned the associated FY2022 funding elsewhere within the program. This decision was critical in order to maintain the aggressive BL4 development and fielding schedule as well as address deferred requirements that cannot be deferred further. These requirements include BL4 development activities, procurement of BL3 and BL4 support equipment for the PME and modified aircraft, procurement of the BL4 CCMCS, execution of change orders, modification of sixth EC-37B aircraft to a BL4 configuration and procurement of non-developmental hardware for lower-level BL4 integration activities.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft		<b>P-1 Line Item Number / Title:</b> CALL00 / Compass Call
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
Modification efforts for the re-hosted aircraft are performed under the Aircraft Procurement, Air Force appropriation, Budget Activity (BA) 05, Budget Sub Activity 5, under P-1 Line Item Number: CALL00/COMPASS CALL Mods. Procurement of the air vehicles for re-host is performed under this line item Aircraft Procurement, Air Force appropriation, BA 04, Budget Sub Activity 05 under P-1 Line Item Number: CALL00/COMPASS CALL.		
The COMPASS CALL Program is managed by the 645th Aeronautical Systems Group (AESG). Funding for this exhibit is contained in PE 0207253F.		
<b>Justification:</b> The FY2022 budget request does not support procurement of a commercial modifiable aircraft or any associated support activities. This budget line has been realigned to BA 05 and RDT&E to fund other critical items to include BL4 development activities, procurement of BL3 and BL4 support equipment for the PME and modified aircraft, procurement of the BL4 CCMCS, execution of change orders that have emerged as a result of concurrent design and production, modification of sixth EC-37B aircraft to a BL4 configuration and procurement of non-developmental hardware for lower-level BL4 integration activities.  The FY2021 budget request supported the procurement of one (1) commercial modifiable aircraft in addition to commercial aircraft support equipment, support equipment specific to the Commercial Derivative Aircraft, and alternate mission equipment. The Compass Call mission system allows for rapid technology advancements. Aircraft #6 is planned to be in the BL4 configuration. The cost of the first BL4 aircraft in FY2021 included non-recurring engineering (NRE) to be performed by the commercial supplier to integrate the BL4 PME, which is why a sharp one-time increase in the cost of aircraft procurement is observed.		

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft	<b>P-1 Line Item Number / Title:</b> E011A1 / E-11 BACN/HAG
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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: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	2	-	2	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	63.419	124.435	-	124.435	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	63.419	124.435	-	124.435	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>0.000</b>	<b>63.419</b>	<b>124.435</b>	-	<b>124.435</b>	-	-	-	-	-	-

*(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> )	-	-	-	62.218	-	62.218	-	-	-	-	-	-

**Description:**

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 0207238F. Requirements for Supplemental Type Certs (STC) for E-11A aircrafts.

BACN Payload and integration procured in P-1 Line Item #68 OTHACF/Other Aircraft in PE:0207610F shred 8733 and P-1 Line Item #30 E011A0/E-11 BACN/HAG PE:0207238F.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft	<b>P-1 Line Item Number / Title:</b> E011A1 / E-11 BACN/HAG
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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: N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E-11 BACN/HAG		A		- / -	- / 0.000	- / 63.419	2 / 124.435	- / -	2 / 124.435
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 0.000</b>	<b>- / 63.419</b>	<b>2 / 124.435</b>	<b>- / -</b>	<b>2 / 124.435</b>

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

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

**Justification:**  
 Funding will support procurement of new BACN aircraft to increase the current BACN fleet and any program support costs. This includes procurement of host platforms, purchases/integrates BACN payload capability, emerging capabilities, and Supplemental Type Certs (STC) as well as purchases related provisioning supplies. Additionally this funding also procures associated systems and provides initial maintenance and sustainment support as required. Funding for this exhibit contained in PE 0207238F.

BACN Payload integration procured out of activities support in P-1 Line Item #68 OTHACF/Other Aircraft in PE:0207610F shred 8733.

Footnotes:  
 (1) Budgeted quantities should be 2 for FY2022

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5	<b>P-1 Line Item Number / Title:</b> E011A1 / E-11 BACN/HAG	<b>Item Number / Title [DODIC]:</b> E-11 BACN/HAG

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	2	-	2
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	63.419	124.435	-	124.435
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	63.419	124.435	-	124.435
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>63.419</b>	<b>124.435</b>	-	<b>124.435</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	62.218	-	62.218

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2020</b>			<b>FY 2021</b>			<b>FY 2022 Base</b>			<b>FY 2022 OCO</b>			<b>FY 2022 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Vehicles - BACN Aircraft Cost																		
Recurring Cost																		
80100	-	-	-	-	-	0.000	63.419	1	63.419	62.218	2	124.435	-	-	-	62.218	2	124.435
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	63.419	-	-	124.435	-	-	-	-	-	124.435
<i>Subtotal: Vehicles - BACN Aircraft Cost</i>	-	-	-	-	-	0.000	-	-	63.419	-	-	124.435	-	-	-	-	-	124.435
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	63.419	62.218	2	124.435	-	-	-	62.218	2	124.435

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft	<b>P-1 Line Item Number / Title:</b> OAX000 / Observation Attack Replacement (OA-X)
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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: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	30.000	0.000	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	30.000	0.000	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>30.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>	-	-	-	-	-	-

*(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 Light Attack Aircraft (LAA) platform increases combat capability and readiness at reduced operating costs for missions in permissive environments. LAA executes under a middle tier rapid fielding acquisition strategy pursuant to Section 804 of the FY16 National Defense Authorization Act. The LAA option offers flexibility and accelerates modernization of current and potential partner forces who do not require advanced fighter aircraft. The LAA effort supports the National Defense Strategy to counter violent extremism on a global scale, alongside allies and partners.

LAA in light of the National Defense Strategy coupled with the potential for U.S. and partner nations combined airborne operations requires the efficient and timely information exchange of tactical data. LAA and partner nations interoperability will be achieved by the utilization of a secure and fully-exportable tactical data network.

LAA squadrons will provide a deployable and sustainable multirole attack capability, capable of performing a diverse array of attack missions, including but not limited to, Close Air Support (CAS), Armed Reconnaissance, Strike Coordination and Reconnaissance (SCAR), Airborne Forward Air control (FAC-A), and Interdiction. Other tasks for which Light Attack aircraft is expected to be suitable include Combat Search and Rescue (CSAR), Rescue Escort (RESCORT), and Maritime Air Support (MAS). LAA squadrons executing these tasks allows our 4th and 5th Generation fighter fleets to implement a tailored training regimen to address declining core mission readiness and focus on preparing to deter or prevail in conflicts with peer adversaries. LAA will provide a deployable, persistent attack capability that can be employed with low footprint and light logistical support requirements.

On 31 July 2018, LAA was formally designated a Section 804 rapid fielding program by the Assistant Secretary of the Air Force (AT&L). Initial aircraft sustainment efforts, known as Contractor Logistics Support (CLS) will be provided by the contractor. LAA funding also supports procurement of long lead materials ,as directed by the Congressional add, Life of Type Buys as required, Training Systems, Support Equipment, Operation Site Activation, Depot Stand-Up, Direct Mission Support, Program Management Administration (PMA) activities, Other Government Costs (OGC), various studies and analysis, future LAA planning activities, and potential Diminishing Manufacturing Sources (DMS) and obsolescence planning activities. It also includes Type I training, aircrew and maintenance courseware, Interim Contractor Support (ICS), and support equipment.

**Justification:**

There are currently no FY22 procurement funds being requested for Light Attack aircraft.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft	<b>P-1 Line Item Number / Title:</b> PRDTB1 / MQ-9
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0304260F, 0305206F, 0305219F
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**Line Item MDAP/MAIS Code:** 424

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	24	16	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	308.600	343.600	3.288	-	3.288	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	308.600	343.600	3.288	-	3.288	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>308.600</b>	<b>343.600</b>	<b>3.288</b>	-	<b>3.288</b>	-	-	-	-	-	-

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

Initial Spares ( <i>\$ in Millions</i> )	-	110.012	47.396	49.212	-	49.212	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	11.905	19.844	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	12.858	21.475	-	-	-	-	-	-	-	-	-

**Description:**

FY20 funding totals include 216.44M appropriated for OCO.

FY21 funding totals include 343.6M appropriated for OCO.

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 GCS configurations to be tailored to fit mission needs. Due to the nature of the platform, all future production requirements may vary based on warfighter necessity and available funding. Production cut-ins will continue to support user requirements.

The MQ-9 Reaper aircraft is a single-engine, turbo-prop Remotely Piloted Aircraft (RPA) designed to operate over-the-horizon at medium-to-high altitudes for long endurance sorties. The aircraft is primarily designed for critical emerging Time-Sensitive-Targets (TST) as a radar, Electro-Optical/Infra-Red (EO/IR), and laser designator-based attack asset with on-board hard-kill capability (hunter-killer) while performing Intelligence, Surveillance, Reconnaissance and Target Acquisition (ISR TA). In the hunter-killer role, the aircraft employs fused multi-spectral sensors to find, fix, and track ground targets and assess post-strike results using Automatic Target Cueing (ATC), Target Location Accuracy (TLA), Metric Sensor, and other capabilities.

The GCS functions as the aircraft cockpit and can control the aircraft from either within Line-of-Sight (LOS) or Beyond Line-of-Sight (BLOS) via a combination of satellite relay and terrestrial communication architectures. The GCS is either mobile to support forward operating locations or fixed at a facility to support Remote Split Operations (RSO). The GCS has the capability to perform mission planning functions; provides a means for manual and/or autonomous command and control; allows personnel to launch, recover, and monitor aircraft, payloads, and the system's communications status; secure data links to receive payload sensor data and command links; monitor threats to the aircraft; display common operational picture information; and provide support functions. Additionally, a Launch and Recovery GCS (LRGCS) allows for servicing, systems checks, maintaining, launching, and recovering aircraft under LOS control for hand-off to a mobile or fixed GCS. The GCS will continue to evolve and upgrade its capabilities to keep pace with MQ-9 system capabilities, Concept of Operations (CONOPS), and the missions they perform. Upgrades include new LINUX processors, high definition monitors, and ergonomic improvements. Future planned upgrades include integrating improved human-machine interfaces, open systems architecture, and improved crew habitability.

The Air Force has established the MQ-9 Multi-Domain Operation (M2DO) aircraft configuration which consists of multiple projects intended to keep the platform viable in the wide-spectrum of armed conflict in the near term. These efforts include, but are not limited to, Anti-Jam Global Positioning System, Enhanced Power, Link 16, Open Mission System/Stellar Relay, Signal Excision, Digital Spread Spectrum Signal,

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft		<b>P-1 Line Item Number / Title:</b> PRDTB1 / MQ-9
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0304260F, 0305206F, 0305219F
<b>Line Item MDAP/MAIS Code:</b> 424		
<p>Enhanced 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.</p> <p>Flyaway cost subtotal includes GCS, Ground Data Terminals (GDTs), and Predator Primary Satellite Links (PPSLs), which are not procured in the same quantities as aircraft. Thus, the unit flyaway cost will fluctuate from year to year as different quantities of GCSs, GDTs, and PPSLs are procured.</p> <p>MQ-9s are procured sole-source with General Atomics-Aeronautical Systems Incorporated (GA-ASI). GA-ASI is responsible for the aircraft and Ground Control Station (GCS), Raytheon Company for the DAS-4 EO/IR sensor, and L3 Communications for the operator simulator and satellite communication (SATCOM) infrastructure components.</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>This program has associated Research Development Test and Evaluation Air Force (AF) funding in Program Element (PE) 0205219F MQ-9 Reaper UAV.</p> <p>Funding for this exhibit is contained in PE 0205219F.</p> <p>MQ-9 Integrated Program Review (IPR) was completed 11 Sep 2017, program ID Code is now A.</p> <p>Funding may be used for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise and production DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established production levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE) if further MQ-9 production orders are directed in the outyears.</p>		

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft **P-1 Line Item Number / Title:** PRDTB1 / MQ-9

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0304260F, 0305206F, 0305219F

**Line Item MDAP/MAIS Code:** 424

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MQ-9		A		- / -	24 / 308.600	16 / 343.600	- / 3.288	- / -	- / 3.288
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	<b>24 / 308.600</b>	<b>16 / 343.600</b>	<b>- / 3.288</b>	<b>- / -</b>	<b>- / 3.288</b>

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

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

**Justification:**

A. DMS - FY22 funding will be used for DMSMS solutions to include but not limited to bridge or life of type buys.

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>					<b>Date:</b> May 2021			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5			<b>P-1 Line Item Number / Title:</b> PRDTB1 / MQ-9			<b>Item Number / Title [DODIC]:</b> MQ-9		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Procurement Quantity (Units in Each)			-	24	16	-	-	-
Gross/Weapon System Cost (\$ in Millions)			-	308.600	343.600	3.288	-	3.288
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			-	308.600	343.600	3.288	-	3.288
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			-	<b>308.600</b>	<b>343.600</b>	<b>3.288</b>	-	<b>3.288</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	110.012	47.396	49.212	-	49.212
Gross/Weapon System Unit Cost (\$ in Millions)			-	12.858	21.475	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway - Flyaway End Item Cost</b>																		
Recurring Cost																		
MQ-9 Reaper Aircraft and GFE	-	-	-	19.688	14	275.630	19.282	16	308.510	-	-	0.000	-	-	-	-	-	0.000
Production Support	-	-	-	-	-	0.000	-	-	-	-	-	0.000	-	-	-	-	-	0.000
Fixed Ground Control Station and GFE	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
Mobile Ground Control Station and GFE	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Predator Primary Satellite Link (PPSL)	-	-	-	-	-	10.090	-	-	9.000	-	-	-	-	-	-	-	-	-
<b>Subtotal: Recurring Cost</b>	-	-	-	-	-	<b>285.720</b>	-	-	<b>317.510</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>
<b>Subtotal: Flyaway - Flyaway End Item Cost</b>	-	-	-	-	-	<b>285.720</b>	-	-	<b>317.510</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>
<b>Support - Support End Item Cost</b>																		
Other Government Costs (OGC)	-	-	-	-	-	6.730	-	-	5.300	-	-	0.000	-	-	-	-	-	0.000
Initial Spares/Deployment Support Kits	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Support Equipment	-	-	-	-	-	3.630	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Training Device/Simulator	-	-	-	-	-	12.520	-	-	7.800	-	-	-	-	-	-	-	-	-
Production Shutdown	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
DMS	-	-	-	-	-	0.000	-	-	12.990	-	-	3.288	-	-	-	-	-	3.288
MQ-9 ECP's	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>												<b>Date: May 2021</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 04 / 5						<b>P-1 Line Item Number / Title:</b> PRDTB1 / MQ-9						<b>Item Number / Title [DODIC]:</b> MQ-9					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	22.880	-	-	26.090	-	-	3.288	-	-	-	-	-	3.288
<b>Gross/Weapon System Cost</b>	-	-	-	12.858	24	308.600	21.475	16	343.600	-	-	3.288	-	-	-	-	-	3.288

**Remarks:**

Due to funding cuts, the Air Force could only procure 14 of the 24 appropriated aircraft in FY20.

Aircraft procurement ends in FY21. 16 aircraft are the Minimum Sustaining Rate (MSR) for MQ-9; reduced quantities below the economic order quantity result in increased unit costs.

Ground Control Station (GCS) & Government Furnished Equipment (GFE) - The GCS functions as the aircraft cockpit and can control the aircraft from either within Line-of-Sight (LOS) or Beyond Line-of-Sight (BLOS) via a combination of satellite relay and terrestrial communication architectures. GCSs are used primarily to support Remote Split Operations (RSO) from Continental United States locations. Block 30 GCS procurement began in FY15 and ended in FY18. Air Combat Command (ACC) analysis has caused GCS quantities to change in year of execution based on need.

Flyaway cost subtotal includes GCS, Ground Data Terminals (GDT), and Predator Primary Satellite Link (PPSL), which are not procured in the same quantities as aircraft. Thus, the flyaway cost will fluctuate from year to year as different quantities of GCSs, GDTs, and PPSLs are procured.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft	<b>P-1 Line Item Number / Title:</b> Q020BR / RQ-20B Puma
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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: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	18	20	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	12.150	13.770	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	12.150	13.770	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>12.150</b>	<b>13.770</b>	<b>0.000</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	1.400	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	0.675	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	0.675	0.689	-	-	-	-	-	-	-	-	-

**Description:**

FY20 funding totals include 12.15M appropriated for Overseas Contingency Operations.  
 FY21 funding totals include 13.77M requested for Overseas Contingency Operations.

The RQ-20B is a small un-manned Aircraft System (UAS). It gives situational awareness by providing persistent, intelligence, surveillance, reconnaissance and targeting data (ISRT) to convoy and ground troops.

The RQ-20B has a 9.2 foot wing span, 4.6 foot nose to tail length, a weight 14.6 kg, and is fully waterproof for all environment operations. It is capable of landing in water or on land. It has precision navigation with secondary Global Positioning System (GPS). The RQ-20B is equipped with both an electro-optical (EO) and an infrared (IR) camera. It also has an illuminator-Geo-location, laser marker.

**Justification:**

No funding requested for FY22.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3010F: Aircraft Procurement, Air Force / BA 06: Aircraft Spares and Repair Parts /  
 BSA 10: Aircraft Spares and Repair Parts **P-1 Line Item Number / Title:**  
 000999 / Initial Spares/Repair Parts

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

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	763.680	930.899	923.573	-	923.573	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	763.680	930.899	923.573	-	923.573	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>763.680</b>	<b>930.899</b>	<b>923.573</b>	-	<b>923.573</b>	-	-	-	-	-	-

*(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:**

FY 2020 funding totals include 44.560 appropriated for Overseas Contingency Operations.  
 FY 2021 funding totals include 22.950 requested for Overseas Contingency Operations.  
 FY 2022 funding totals include 30.800 requested for Direct War and/or Enduring Requirements.

The FY22 funding request was reduced by \$32.213M to account for the availability of prior year execution balances.

Program Description: Aircraft Initial Spares are required to fill the initial pipeline or inventory for all new aircraft systems, including modifications, support equipment, and other production categories. Initial spares include peculiar repairable and consumable components, assemblies, and sub-assemblies that must be available for issue at all levels of supply in time to support newly fielded end items.

The following Major Defense Acquisition Programs (MDAP) have funding in this line:

- F-35, 198
- FAB-T, 199
- V-22, 212
- AWACS UPGRADE, 277
- KC-46A, 387
- MQ-9 UAS Reaper, 424
- F-15 EPAWSS, 485
- CRH, 479
- CV-22, 212
- MH-139A, 562

Initial spares are funded in the two program segments described below.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 06: Aircraft Spares and Repair Parts / BSA 10: Aircraft Spares and Repair Parts		<b>P-1 Line Item Number / Title:</b> 000999 / Initial Spares/Repair Parts
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>Working Capital Fund (WCF) Spares. Since FY 1994, some programs have used obligation authority in the WCF to procure initial spares. When the spares are delivered this central procurement account will reimburse the WCF. Types of spares in this program segment are Readiness Spares Packages, New Acquisition Spares, Modification Spares, Support Equipment, Other Production, and Consumables.</p> <p>Exempt Spares. This program segment finances spares that are not purchased through the WCF. The budget authority is a direct cite on the contract. Types of spares in this program segment are Whole Spare Engines, Whole Spare Quick Engine Change Kits, Contractor Logistics Support, Simulators/Trainers, New Acquisition Spares, Modification Spares, Support Equipment, Classified Equipment, and Munitions.</p>		

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F: Aircraft Procurement, Air Force / BA 06: Aircraft Spares and Repair Parts / BSA 10: Aircraft Spares and Repair Parts

**P-1 Line Item Number / Title:**  
000999 / Initial Spares/Repair Parts

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

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-18	Initial Spares/Repair Parts			212 277 265 198 387 424 252	- / -	- / 763.680	- / 930.899	- / 923.573	- / 0.000	- / 923.573
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 763.680</b>	<b>- / 930.899</b>	<b>- / 923.573</b>	<b>- / -</b>	<b>- / 923.573</b>

Title represents the P-18 Title for Spares.

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

**Justification:**  
A-10 Wing Replacement: FY22 funds are necessary to procure spares to support and maintain A-10 aircraft modified with ATTACK wings. Spares will include major sub-components such as flight controls, as well as parts required to repair bird strikes and other unanticipated wing damage.  
Aerial Targets: FY22 funds are required for spare parts for the Air Force Subscale Aerial Target (BQM-167A). Spares include replacement components, equipment and parts.  
ASARS-2B/U-2 Mods: FY22 funds are required to procure initial spares for the Advanced Synthetic Aperture Radar System (ASARS)-2B.  
Automated Test Systems: FY22 funds are required to procure initial spares for the Bomber Armament Tester (BAT) a nuclear certified common tester capable of testing on-aircraft Stores Management Systems and Line Replacement Units both on-and off-aircraft. The BAT System will test functionality of the Armament Mission Equipment (AME) that is required for B-2A, B-1B, and B-52H weapons  
B-1: The Radio Crypto Compliance will provide next generation secure radios, uninterrupted LOS/BLOS secure force and cutting edge MUOS capability. The FY22 funding will be for initial long lead spares. The funding will purchase off-the-shelf ARC-210 Gen 6 radios and ancillaries. Funding is required in order to procure the ARC-210 spares to ensure early, un-interrupted depot activation and supply chain continuity.  
B-52: The GPS IU provides an interface between the navigation, communications & weapons systems on-board the aircraft. The FY22 funding will be the first year of spares for GPS-IU. FY22 funding will purchase the first set of spares and readiness spare kits for field operations. Funding will include the procurement of long lead components required for initial spares, such as, but not limited to, computer processing units and circuit card assemblies.  
C-17: FY22 funding request provides initial spares for landing gear for the C-17 fleet.  
C-130: FY22 funding request provides initial spares for the C-130 Avionics Modernization Program (AMP 2).&#160;  
C-5: FY22 No funding requested.  
Combat Developments: FY22 funds are necessary to provide initial spares for E-9 Systems Modifications (Spares).  
Compass Call: FY22 funding procures spares for the EC-37B Compass Call re-host aircraft for Systems Integration Laboratory (SIL) population; ground and flight test; and initial delivery of the aircraft.  
CV-22 (212): FY22 fund request provides initial spares for Nacelle Improvement, Troop Seat Pin, Distributed Infrared Counter Measures Advanced Threat Warning (DIRCM ATW), PropRotor Gear Box (PRGB) Input Quill/Clutch Redesign, Conversion Harness, and Obsolescence modification efforts.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 06: Aircraft Spares and Repair Parts / BSA 10: Aircraft Spares and Repair Parts		<b>P-1 Line Item Number / Title:</b> 000999 / Initial Spares/Repair Parts
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>E-3 Airborne Warning and Control System (AWACS): FY22 funding procures the spare parts required to support the DRAGON cockpit and avionics overhaul as well as other mandatory modernization efforts including, but not limited to, Combat Identification Modernization, Communications Network Upgrade, and Mode 5 Transponder. These spares are needed to maintain readiness, maintainability, and aircraft availability levels necessary to execute validated combat operations requirements.</p> <p>E-11A BACN: FY22 funds are required to support initial fielding of numerous program efforts including, but not limited to, BACN payloads and aircraft components and communication systems associated with the BACN mission. Funding for this exhibit contained in PE 0207238F.</p> <p>E-4B National Airborne Operations Center (NAOC): FY22 funds are required to support initial spares for numerous program efforts, including, but not limited to, Survivable Super High Frequency (SSHF) for Ka system, baseplate and radome, Advanced Extremely high frequency (AEHF) compatible Terminal/Presidential National Voice Conferencing (PVNC), and low cost modifications.</p> <p>F-15: The FY 2022 funds are required to reimburse the Working Capital Fund (WCF) for initial spares procured in prior years with WCF funding. Initial Spares are required to support newly fielded F-15 modifications. The program office must procure sufficient quantity to cover the demand period and fill the spares pipeline until transitioned to sustainment. The programs requiring funding in FY 2022 are F-15C/D IRST, F-15 C/E ADCP II, F-15 C/D SLEP Longerons, F-15 C/D/E MIDS-JTRS, F-15E RMP, and F-15 EPAWSS.</p> <p>F-15 EPAWSS: Initial F-15 EPAWSS spares, to include Line Replaceable Units and Line Replaceable Modules (LRUs/LRMs), are mandated by DoD 5000.02 and DoDM 4140.02 V2 in order to support Modified Operational Aircraft. Due to the 20-mo production lead time associated with procuring EPAWSS hardware, FY 2022 funding is critical to keeping Initial Operational Capability on-time by ensuring the modified aircraft field with an appropriate Product Support Package. Furthermore, spares funding is required to ensure Aircraft Availability (AA) in order to meet COCOM requirements for real-world, in-theater deployments for EPAWSS-equipped F-15s.</p> <p>F-35: The F-35 initial spares requirement for FY 2022 includes the F-35 Joint Spares Pool (JSP), Global Spares Package (GSP), Base Spares Packages (BSPs), and Deployment Spares Packages (DSPs). The total F-35 JSP requirement includes spares to cover procurement lead time, repair cycle time, and transportation between the various nodes of the supply chain including spare propulsion systems, depot lay in and modules. The GSP is shared amongst all F-35 Participants and based upon Aircraft variant and flight hours. The Air Force initial spares requirement in FY 2022 consists of its contribution to GSP; one (2) BSPs to support Forth Worth and OPS-8 Squadron, and three (3) DSPs (USAF DSP-D- 15, DSP-D-16 and DSP-D-17).</p> <p>F-16: The FY22 funds are required to procure initial spares to support the fielding of the following Modification Programs: Auto Ground Collision Avoidance System (AGCAS), Active Electronically Scanned Array (AESAs), Advanced Identify Friend or Foe (AIFF) Mode 5, Comm Suite Radio Upgrade, Digital Radar Warning Receiver (DRWR), Multifunctional Information Distribution System Joint Tactical Radio System (MIDS JTRS), Training Simulators and Mission Training Centers (MTC) and Modular Mission Computer (MMC) Programmable Display Generator (PDG). Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>F-22 Squadrons: The FY22 funds support the procurement of initial spares to include repairable and consumables items necessary at all levels of supply in time to support newly fielded end items. Efforts include, but are not limited to the following: Link 16, Sensor Enhancement, Crypto Modification, and Mode 5 Identification Friend or Foe (IFF). Link 16 hardware is required to enable Link 16 transmit, critical for combat operations. Sensor Enhancement hardware is required to implement advanced technology developments to maintain the platform's air superiority role. Crypto hardware is required to support National Security Administration mandates. Mode 5 IFF enables IFF Transpond and Interrogate capabilities on all Block 30/35 F-22 aircraft. Additional initial spares may be required to support newly fielded end items which are not tied to a specific thrust but rather are a result of a reliability, maintainability or sustainability retrofit.</p> <p>Gorgon Stare: FY22 funds are required to procure initial spares for an Infrared (IR) sensor mod necessary for continued support to JUON CC-0534. The current IR sensors on Gorgon Stare Increment II equipped MQ-9 combat lines have mission impacting DMS issues. Additionally, this funding will procure initial spares for electro-optical (EO) and IR imagery improvements necessary to satisfy ACC approved AF 1067s (ACC 17-254 and ACC 18-075).</p> <p>HH-60G: FY22 funding request provides initial spares for the Degraded Visual Environment (DVE).</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 06: Aircraft Spares and Repair Parts / BSA 10: Aircraft Spares and Repair Parts		<b>P-1 Line Item Number / Title:</b> 000999 / Initial Spares/Repair Parts
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
HH-60W (479): FY22 funding request provides initial spares, including but not limited to airframe, engine, readiness, and training systems to support 22 HH-60W aircraft.		
KC-10: No initial spares requirement for KC-10 in FY22		
KC-135: FY22 funding request provides initial spares to support of the Aero-I program.		
KC-46 (387): FY22 initial spares funding request required to fill the initial spares parts pipeline and repair spare parts to include spare engines in support of newly fielded aircraft and Air Mobility Command's bed-down plan as required by title 10 U.S.C. Chapter 9A, Sec 240-D.		
MQ-9: The FY22 funding procures the initial spare parts required to support newly-fielded MQ-9 Weapon Systems, including, but not limited to, Multi-spectral Targeting Systems (MTS) and Ground Control Stations (GCS). These spares are needed to maintain readiness, maintainability, and aircraft availability levels necessary to execute validated combat operations requirements.		
MH-139A (562): FY22 funding request provides initial spares, including but not limited to airframe, engine, readiness, and training systems to support the MH-139A aircraft.		
OTHACF Precision Attack Systems Procurement: FY22 funds are required to procure initial spares for the Advanced Targeting Pod (ATP) Components.		
RC-135 Aircraft: FY22 funds are required to procure initial spares in support of modifications of three different RC-135 aircraft mission design series utilizing seven separate engineering baselines. The initial spares consist of numerous non-stocklisted, commercial-off-the-shelf (COTS) LRU's, SRU's and piece part electronic components necessary for initial fielding and operations at seven world-wide operating locations.		

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2022 Air Force					Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 06 / 10		P-1 Line Item Number / Title: 000999 / Initial Spares/Repair Parts			Title: Initial Spares/Repair Parts	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2020 (\$ M)	FY 2021 (\$ M)	FY 2022 Base (\$ M)	FY 2022 OCO (\$ M)	FY 2022 Total (\$ M)
<b>Initial</b>						
BA 06 - Aircraft Spares and Repair Parts						
A01000 / A-10 Squadrons	-	5.171	7.258	6.600	0.000	6.600
10TRGT / Aerial Targets	-	0.589	0.600	0.600	0.000	0.600
OTHACF / Precision Attack Systems Procurement	-	3.367	3.423	3.425	0.000	3.425
OTHACF / Automated Test Systems	-	-	-	2.942	0.000	2.942
B01B00 / B-1B Squadrons	-	-	0.717	0.847	0.000	0.847
B05200 / B-52 Squadrons	-	2.499	2.692	7.863	0.000	7.863
C13000 / C-130 Airlift Squadron	-	-	-	0.419	0.000	0.419
C01700 / C-17 Aircraft (IF)	-	8.602	47.774	21.090	0.000	21.090
C00500 / C-5 AIRLIFT SQUADRONS (IF)	-	2.053	0.409	0.000	0.000	0.000
OTHACF / Combat Developments	-	0.155	0.158	0.158	0.000	0.158
CALL00 / Compass Call	-	10.805	10.985	65.624	0.000	65.624
H060WH / Combat Rescue Helicopter	-	-	75.821	76.937	0.000	76.937
V022A0 / CV-22 [212]	-	-	6.574	10.525	0.000	10.525
E00300 / Airborne Warning and Control System (AWACS) [277]	-	17.400	7.018	21.274	0.000	21.274
E00400 / E-4B National Airborne Operations Center (NAOC)	-	0.332	0.339	0.339	0.000	0.339
EQ04B0 / EQ-4B	-	3.480	-	7.090	0.000	7.090
F01500 / F-15A/B/C/D Squadrons	-	4.499	37.637	1.236	0.000	1.236
F15EWS / F-15 EPAWSS	-	4.185	-	28.005	0.000	28.005
F01500E / F-15E Squadrons	-	3.647	18.839	19.569	0.000	19.569
F01600 / F-16 Squadrons	-	30.463	21.486	40.980	0.000	40.980
F02200 / F-22A Squadrons [265]	-	11.000	13.497	22.252	0.000	22.252
ATA000 / F-35 Squadrons [198]	-	401.080	304.289	267.667	0.000	267.667
PRDTB3 / Gorgon Stare	-	1.500	10.700	6.800	0.000	6.800
H06000 / Combat Rescue - HH-60	-	1.818	1.847	1.849	0.000	1.849
C01000 / KC-10s	-	-	0.032	0.033	0.000	0.033
C13500 / KC-135S	-	2.291	2.332	0.247	0.000	0.247
KC046A / KC-46A Tanker Squadrons [387]	-	-	194.189	222.023	0.000	222.023
PRDTB1 / MQ-9 UAV [424]	-	110.012	47.396	28.182	0.000	28.182
JPATS0 / New AETC Aircraft Systems	-	-	0.001	0.000	0.000	0.000
C02500 / Operational Support Airlift	-	-	2.157	0.000	0.000	0.000

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<b>Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2022 Air Force</b>						<b>Date: May 2021</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 06 / 10		<b>P-1 Line Item Number / Title:</b> 000999 / Initial Spares/Repair Parts			<b>Title:</b> Initial Spares/Repair Parts		
<b>End Item Line Item Number / Name [MDAP/MAIS]</b>	<b>Prior Years (\$ M)</b>	<b>FY 2020 (\$ M)</b>	<b>FY 2021 (\$ M)</b>	<b>FY 2022 Base (\$ M)</b>	<b>FY 2022 OCO (\$ M)</b>	<b>FY 2022 Total (\$ M)</b>	
DARP01 / RC-135	-	83.572	51.282	51.305	0.000	51.305	
HAEUAV / RQ-4 UAV [252]	-	25.746	-	0.000	0.000	0.000	
11U200 / U-2	-	28.097	43.058	7.692	0.000	7.692	
T00100 / Undergraduate Pilot Training (UPT)	-	1.317	-	0.000	0.000	0.000	
H01060 / UH-1N Replacement Program	-	-	18.389	0.000	0.000	0.000	
<b>Subtotal: Initial</b>	-	<b>763.680</b>	<b>930.899</b>	<b>923.573</b>	<b>0.000</b>	<b>923.573</b>	
<b>Total Cost (Initial + Replenishment)</b>	-	<b>763.680</b>	<b>930.899</b>	<b>923.573</b>	<b>0.000</b>	<b>923.573</b>	

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 1: Common Support Equipment

**P-1 Line Item Number / Title:**  
000071 / Aircraft Replacement Support Equip

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0202834F **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	38.775	93.212	149.483	138.761	-	138.761	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	38.775	93.212	149.483	138.761	-	138.761	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>38.775</b>	<b>93.212</b>	<b>149.483</b>	<b>138.761</b>	-	<b>138.761</b>	-	-	-	-	-	-

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	1.097	2.999	-	2.999	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

FY20 funding totals include 7.025M appropriated for European Deterrence Initiative (EDI).  
FY21 funding totals include 25.614M appropriated for European Deterrence Initiative (EDI).

This program provides funding for the procurement of replacement organizational and intermediate level support equipment for out-of-production aircraft. These items, common (used on more than one weapon system) and peculiar (unique to one weapon system), directly support aircraft maintenance, servicing, and sortie generation requirements. These replacement requirements ensure continuation of serviceable, supportable equipment over the life of a weapon system and directly contribute to aircraft availability and mission readiness. Items requiring replacement typically range in age from 10 to 35 years old. As a result, this equipment suffers frequent failures, is uneconomical to repair, and requires spare parts that are no longer available. Many items have become technologically obsolete or must be replaced due to environmental operating constraints. Items of equipment budgeted within this program include (but are not limited to): avionics test stations, miscellaneous aerospace ground equipment, aircraft handling equipment, aircraft maintenance stands, flight line compressors, air conditioners and heaters, aerial stores lift trucks (jammers) and weapon loading adapters, ammunition loaders and munitions assembly conveyors, cryogenic equipment, small and large munitions trailers, flight line generators and secondary power systems, electronic test sets, propulsion support equipment, calibration, optical and ancillary testers, and automatic test systems. These items support multiple Air Force weapon systems. Failure to procure these items will negatively affect mission capable rates, increase maintenance costs, and increase sortie turn times.

**PROGRAMS SUPPORTED:**

Flight Line Air Conditioners/Heating, Ventilating and Air Conditioning (HVAC)(SEV)

The Flight Line HVAC program provides the capability to operate aircraft systems, both nuclear and conventional, that require environmental control during ground operations. The program consists of 151 different National Stock Numbers which consists of air conditioners, heaters, liquid coolant carts, and refrigerant reclamation systems. Included in the program's capabilities are the high/low volume, high/low pressure deployable air conditioners in support of all aircraft in the USAF inventory. Its purpose is to provide conditioned air for supporting pre-flight activities and ground maintenance efforts for electronic laden aircraft supporting radar, avionic and telemetry systems. Operational assessments determined that legacy air conditioners were not performing to their specified operating temperatures. These air conditioners have exceeded their 20 year life expectancy. The age of this equipment, High ops tempo, high temperatures, and other environmental conditions in the Middle East have caused legacy air conditioners to fail, affecting operational readiness and jeopardizing critical mission. Due to obsolescence, continued modification of legacy equipment is becoming non feasible and/or cost prohibitive. Lack of dependable air conditioning equipment continues to cause operational impacts such as rescheduling maintenance activities to nighttime operations or delaying sorties in order to avoid overheating of critical electronic warfare/ avionics systems and personnel. Consequently, the warfighter has established a critical need for large and small flight line air conditioner replacement programs. The primary goals of this program are to replace the legacy units. The new large air conditioners will replace three legacy systems (approx. 400 units). The new small air conditioners will replace five legacy systems (approx. 2,400 units)

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 1: Common Support Equipment		<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0202834F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

**B-1B Advanced Radar/Electronic Warfare Test Station (ARTS) (ATS)**

The Advanced Radar/Electronic Warfare Test Station (ARTS) replaces 1970s vintage Radar/Electronic Warfare (REW) test stations and the Defensive Avionics Augmentation Equipment (DAAE). ARTS is a fully automated, programmable, stimulus generating, response measuring, intermediate automatic test equipment that will checkout, align, and fault isolates 21 avionics Line Replaceable Units (LRUs). ARTS interfaces to the LRU's via Test Program Sets (TPS). TPS's are required to perform the automated testing and faults isolation of the Unit Under Test (UUT). A TPS consists of test software, an Interface Adapter (ITA), cables used to connect the ITA to UU, and supporting documentation. This test station supports B-1B Radar/Electronic Warfare LRUs, and ultimately impacts B-1B mission capability for Global Attack missions. Failure to provide funding for ARTS will reduce B-1B mission capability due to non-availability of serviceable assets. The Automatic Test Equipment (ATE) presently supporting B-1B LRU troubleshooting and repair is no longer supportable due to diminished manufacturing sources and obsolescence caused by the age of the equipment. The average REW and DAAE mission capable rate is 67%.

**Aerial Stores Lift Trucks (SEV)**

The Aerial Stores Lift Trucks program acquires air transportable, nuclear-certified hydraulically operated lift equipment (and associated accessories) used to load conventional and nuclear weapons, fuel tanks, Electronic Counter Measure pods, and pylons. This program consists of 112 different National Stock Numbers. The lift trucks in inventory are capable of lifting 3,000 lbs and 10,000 lbs, respectfully, but based on the needs of future weapons, modifications to current munitions and/or new external STOW, the lifting capability of these systems may be modified to meet warfighter requirements. Lift trucks are used in support of the A-10, B-1, B-2, B-52, C-130, F-15, F-16, F-22, F-35 and KC-46 aircraft. Users of the lift trucks include USAF, ANG, AFRC, and FMS. The goal of this program is to recapitalize the aging munitions loading equipment where nearly a third of the fleet has exceeded their service life by an average of 9 years. The current age of the lift trucks is driving higher maintenance timelines and putting readiness for conventional and nuclear units at risk. Additionally, depot repair of legacy lift trucks has become uneconomical as these costs have now exceeded the cost of procuring a new piece of equipment.

**Common Operational Level Tester (COLT)(ATS)**

COLT is used on B-2 and F-22 weapon systems and is Nuclear Certified. The Common Operational Level Tester (COLT) is a multiple application-based tester that allows the Air Force maintainers to perform maintenance task to verify the operational capability of aircraft armament and stores management systems/subsystems and armament components. It includes the tester unit, ancillary equipment and related software program, data and documentation. Funding for this effort will allow all obsolescent items within the tester to be updated. It also will allow updating of the software to meet Authority to Operate (ATO)conditions set in the Plan of Actions and Milestones that is coordinated with the COLT Authorizing Official.

**Munitions Materiel Handling (MHU) 196/204 Service Life Extension Program (SLEP)(SEV)**

The MHU 196/204 Service Life Extension Program (SLEP) updates legacy heavy lift trailers that are critical in maintaining USAF's bomber fleet's nuclear and conventional mission. These trailers are self-powered, heavy duty, U-type frame munitions trailers with 40,000 lbs lift capacity used to transport and lift rotary launchers and bomb racks with conventional and nuclear munitions for the B-1, B-2 and B-52 aircraft. In their present state, legacy MHU 196/204 trailers are unsustainable due to parts obsolescence and are experiencing uncommand responses due to antiquated electronic and hydraulic systems as identified in the requirements documentation (AF Form 1067, Modification Proposals, AFGSC 18-090 and AFGSC 18-091). This program will extend the service life of the MHU 196/204 trailers by assessing the structural integrity and upgrading the legacy control and power system. This SLEP is being completed at the depot located at the Ogden Air Logistics Complex. The completion of this effort will extend the life of these trailers for another 15 years.

**Items Less Than 5M (SEV, ATS, AFSC)**

The Items Less Than 5 Million line procures replacement organizational and intermediate (common and peculiar) support equipment for out-of-production aircraft. All item procured under this requirement have been moved to the family of systems in which the belong for FY20.

**ATS - Base Maintenance and Support Equipment (ATS)**

ATS - Base Maintenance and Support Equipment procurement dollars will be used in support of the purchase/upgrades of Armament Test Sets, purchase of Common Cargo ATS, hardware, TPS and other support to ensure cyber secure Automatic Test Systems and costs associated with Common items (used on more than one weapon system) and peculiar items (unique to one weapon system) automated test equipment for the Automatic Test Systems Division. These replacement items ensure continuation of serviceable equipment over the life of a weapon system. Items for procurement include, but are not limited to, test adapter kits, transponder test sets, Portable Automatic Test Sets, Radar Signal Simulators (RSS), logistics under attack cyber efforts, digital test stations, automated wire test sets, propulsion automatic test equipment, automatic test equipment calibration, smart weapons test sets, optical and ancillary testers, Commercial Off the Shelf (COTS) Automatic Test Equipment (ATE).

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 1: Common Support Equipment		<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0202834F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>PMA Other Government Costs applies to travel in relation to multiple platforms to include, but are not limited to F-16, B-52, B-1, B-2, F-15, A-10, cyber support, and other government costs in support of Automatic Test Systems programs and the Automatic Test System program office. Programs include, but are not limited to, ATS Standardization, Portable Automatic Test Sets (PATS), Identification Friend or Foe-Radar Test Set (IFF-RTS), Electrical Electronics Equipment Test Station (EEETS), Common Organizational Level Tester (COLT), Armament Test Sets (ATS), Automated Wiring Test Set (AWTS), Electronic Warfare (EW) Chaff/Flare, Radar Signal Simulator (RSS)(AN/PLM-4), Radio Frequency Transmission Line Test Set (RFTLTS), Benchtop Reprogrammable Test System (BRAT), Helmet Cueing System Automatic Test Equipment (HCS-ATE) Commercial Off the Shelf (COTS) Automatic Test Equipment (ATE).</p> <p>Common Aircraft Portable Reprogramming Equipment (CAPRE)(ATS) Common Aircraft Portable Reprogramming Equipment (CAPRE) supports 45 Mission Design Series (MDS) to reprogram aircraft computer software, update threat data in electronic warfare pods, perform aircraft diagnostic troubleshooting, and support automated technical orders. CAPRE consists of a mobile maintenance terminal, cables, interface modules, software, and Aircraft Adapter Groups (AAGs). Critical to CAPRE are the AAGs. AAGs connect CAPRE laptops, test equipment, and Line Replaceable Units (LRU) on support weapon systems. There are 10 to 26 AAGs required per CAPRE, depending on the aircraft type. Each AAG contains unique cables, connectors, interface module hardware, and software to support reprogramming LRUs. Each shop/location/platform utilizing the aircraft system requires AAGs. Mission-critical Operational Flight Programs (OFPs) and mission data files are downloaded to the CAPRE laptop for the secure bulletin board and over secure telephone units. Personnel then transport CAPRE to the weapon system and use AAGs to upload files to avionics/electronic warfare computers. The CAPRE supports the following weapon systems: A-10, B-1, B-52, C-5, C-17, C-130, CV-22, F-15, F-16, H-60, and KC-46. CAPRE is the recognized standard for Air Force Memory Loader Verifier capability.</p> <p>Hydraulic Servicing Equipment (SEV) The Hydraulic Servicing Equipment program will recapitalize over 44 legacy variants of hydraulic test stands in USAF inventory. This program consists of 275 different National Stock Numbers. The primary effort is procurement of the universal hydraulic test stand (UHTS) which comes in electric and diesel, 2-system and 3-system configurations, depending on aircraft and maintenance requirements. The UHTS provides pressure to aircraft hydraulic systems without running the engines. It also adds on-board hydraulic fluid purification capability to eliminate the need for standalone purifiers. To reduce the cost of ownership, simplify life cycle sustainment and improve global operations, the UHTS variants share an 80-90% parts commonality and were designed for ease of maintenance. The UHTS cleans hydraulic fluid to a higher purity than received from the manufacturer, drastically reducing the wear and tear and early age-out of aircraft component parts, increasing aircraft availability and mission readiness.</p> <p>Joint Service Electronic Combat Systems Tester (JSECST) (ATS) The Joint Service Electronic Combat Systems Tester (JSECST) provides an organizational level (O-level) flight line capability for verifying the operational status of aircraft installed Electronic Combat (EC) systems including their associated installed antennas, transmission lines, radomes, cockpit displays, controls and EC suite communication buses. JSECST is a joint-use tester, which the Air Force is the lead service. It also provides EC system malfunction diagnostics. The JSECST provides end-to-end (ETE) functional testing to determine the status of EC system installed in or on operational aircraft. It automatically determines the go/no-go status of the EC system with minimal technician interaction. In cases where the EC system has a critical fault, the JSECST detects the critical failure, identifies the ETE test that failed, and provides the diagnostics to isolate the failed aircraft transmission line path/component or line replaceable unit (LRU). The JSECST can be operated in automatic or manual mode to provide identification and isolation of failed EC systems. This equipment supports the Air Force's A-10, F-15, F-16, C-130, CV-22, B-52, and MH-60 aircraft; failure to procure this item would compromise the safety of more than 53 operational units.</p> <p>Portable Automatic Test Sets (ATS) Portable Automatic Test Set (PATS)-70 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 &amp; fault isolation of Alpha Mach (Threshold) &amp; Anti-Skid (Objective) Systems as PATS-70v1 followed by Anti-Skid &amp; 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 incorporate all features of the following currently fielded O &amp; 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 &amp; MK-IV Rocket Launcher &amp; Flare Dispenser Testers, and Ejector Bomb &amp; Rack Test Sets.</p> <p>Small Munitions Trailers (SEV) The Small Munitions Trailers program provides trailers (and associated accessories) capable of carrying up to 15,000 lbs of conventional munitions and up to 5,500 lbs of nuclear munitions in direct support to aircraft operations. These trailers can carry bombs, missiles (Air-to-Air and Air-to-Ground), all calibers of ammunition, all countermeasures all decoys and practice bombs. Small Munitions Trailers directly</p>		

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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 1: Common Support Equipment		<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0202834F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>support B-1, B-2, B-52, A-10, F-15, F-16, F-22, F-35, C-5, C-17, C-130, AC-130, KC-46, KC-10 and KC-135 rated to carry munitions as cargo. The goal of this program is to replace all legacy small munitions trailers in USAF inventory in one program effort. The average legacy trailer has exceeded twice its 20 year service life. The last procurement of these trailers was in 1992. The impact of age plus wear and tear have created serious obsolescence issues and high overhaul repair costs. Currently, the cost to complete a depot overhaul of a legacy trailer is nearly twice the estimated procurement cost of a new trailer.</p> <p><b>Nondestructive Inspection (NDI) &amp; Oil Analysis Program (OAP)(SEV)</b> The NDI/OAP program provides a twofold capability. NDI equipment is used to find cracks, corrosion and other signs of impending failure in an aging fleet of aircraft and support equipment. Oil analysis equipment detects impending aircraft bearing, gearbox and engine failures. This program supports mandated inspection procedures of all variants of aircraft and aircraft engines in the USAF inventory. These capabilities represent 218 different National Stock Numbers. Many items within NDI &amp; JOAP program use electronics which are increasingly unsustainable. The goal of this program is to capture advances in technology preparing Air Force for new missions/equipment while also increasing effectiveness and accuracy of inspections. New JOAP equipment reduces the need of repair contracts and consumables saving 16.1M annually. Additionally, for NDI, conversion to digital X-Ray equipment eliminates need for costly film and processing supplies which utilize hazardous materials.</p> <p><b>Aircraft Engine Test Equipment (AETE)(SEV)</b> The AETE program provides the capability for the warfighter to download, test, repair, troubleshoot and analyze engine data on all variants of aircraft found in the United States Air Force inventory. This program consists of, but is not limited to; engine test stands, engine test fixtures and adapters, noise suppressors (equipment that is designed to house and reduce the noise of engines while being tested), engine test sets &amp; engine download devices (various pieces of equipment that support the analysis of engines and potential issues needing maintenance attention). These capabilities represent approximately over 450 different National Stock Number items. The goal of this program is to support the replacement of antiquated legacy equipment or fill the large gaps in the authorized vs "on-hand equipment. A majority of flight line testers are beyond their serviceable life and must be replaced.</p> <p><b>Aircraft Engine Handling Equipment (AEHE)(SEV)</b> The AEHE program will procure various equipment that provide the capability to remove/install, store and transport aircraft engines. This equipment supports all variants of aircraft found in the USAF inventory. The program currently consists of 256 different National Stock Numbers items. These items include, but are not limited to, aircraft engine trailers, ground handling adapters, ground handling cradles and engine holding fixtures. The goal of this program is to replace the aging equipment that has exceeded its service life, many by 20-30 years. Due to the age of the equipment, the AF is challenged due to parts obsolescence. This is causing trailers in the field to be cannibalized to garner replacement parts to support the aircraft mission. This is quickly becoming an unsustainable activity to maintain fleet readiness.</p> <p><b>Aircraft Maintenance Test (AMT)(SEV)</b> The AMT program acquires equipment that provides the capability for flight line personnel to test, analyze, troubleshoot and repair aircraft sub-systems. This capability is critical for aircraft maintainers to maintain readiness of the USAF aircraft fleet. Equipment under this program includes avionics, electrical and mechanical testers as well as boresights and optical equipment. Items in this portfolio are used on all USAF aircraft across all Major Commands at both home station and deployed locations. Legacy systems are aging and facing obsolescence issues and rising repair costs.</p> <p><b>Flight Line Maintenance Stands (SEV)</b> The Flight Line Maintenance Stands program is responsible for procurement of stands utilized by aircraft technicians to work safely at various heights while performing maintenance and inspections on multiple aircraft weapon systems. This program consists of 173 different National Stock Numbers. The goal of the program is to modernize the 40+ year old legacy stand designs, which are no longer supported by the Original Equipment Manufacturers. Currently, the legacy stands do not meet OSHA's and Air Force Safety Office recently imposed standards. Procurement of the new safety compliant stands will provide critical fall protection for flight line and hanger maintenance operations which reduces maintenance costs and increases safety for our airmen.</p> <p><b>Flight Line Generators (SEV)</b> The Flight Line Generator program supports the procurement of modernized equipment providing electrical power capability to support the launch and maintenance of multiple aircraft platforms within the USAF inventory. The program currently consists of 25 different National Stock Numbers. Primary goals of this program is to recapitalize the aging generator fleet. The large generator sets provide necessary electrical power to support the USAF's Low Density/High Demand fleet; E-3, E-4B, E-8, EC-130, and RC-135 aircraft. The small generator sets provide the necessary power to support the rest of the USAF aircraft fleet. As a whole, 70% of the legacy generators on the flight line have exceeded the 20 year service life by an average of eight years. These systems are rapidly becoming unsupportable due to age and parts obsolescence, increasing the risk to mission readiness across the various aircraft platforms. Additionally, depot repair of legacy generators have become uneconomical as these costs have now exceeded</p>		

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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 1: Common Support Equipment		<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip
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<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>twice the procurement cost of a new piece of equipment. The goal of this program is to replace antiquated and exhausted generator sets and reduce the number of models in the field to decrease overall USAF footprint.</p> <p><b>Flight Line Compressors (SEV)</b> The Flight Line Compressor program provides dry, compressed air for power tools, aircraft engine start and servicing. The program consists of 260 different National Stock Numbers. Without the availability of mobile compressors, maintenance times increase due to required manual operation of hand tools. The high pressure compressors also are the only units capable of providing the required air to operate the F-16 missile rail system and 20mm ammunition loading systems. This program replaces numerous legacy systems reducing operational costs and improving maintenance capability. Newer systems provide higher performance/efficiency with increased air volume needed for advanced aircraft (F-22, F-35, and KC-46). A new workload recently added to this portfolio is pneumatic lifting bags. These bags are crash damaged or disabled aircraft recovery (CDDAR) devices used to lift damaged or crippled aircraft where it is impractical or impossible to use standard aircraft jacks. There are currently 26 bases with less than 50% asset availability that may not be able to effectively clear their active runway in the event of a crashed aircraft.</p> <p><b>Secondary Power(SEV)</b> The Secondary Power program provides multiple pieces of electrical equipment including, but not limited to, load banks, frequency converters, power supplies, distribution boxes, and lighting equipment which support aircraft both on the flight line and back shop operations. It provides external ground power and illumination for every USAF aircraft. The program consists of 135 different National Stock Numbers used in direct support of testing/repair of aircraft avionics and communication equipment. Without this capability, field repair of aircraft line repairable units is impossible, increasing the supply chain and repair costs. Two of the larger projects within the program are the 100kW load bank and four-wheel light cart. The load bank is a portable, trailer-mounted, four-wheel chassis designed to test/troubleshoot loads on small flight line generators at multiple voltages. The four-wheel light cart is a self-contained, mobile power generating light source used for essential lighting on the flight line.</p> <p><b>Cryogenic Systems(SEV)</b> The Cryogenic Systems program provides the capability for aircraft maintenance personnel to service critical aircraft life support systems using oxygen and nitrogen servicing equipment. This program consist of 80 different National Stock Numbers. The newest acquisition in this program, the High Purity Self Generating Nitrogen Servicing Cart, meets fifth generation requirements and reduces the logistics footprint of legacy systems and is in high demand by the warfighter. The goal of this program is to replace legacy systems that have exceeded the 20 year service life and units exhausted from high ops tempo, experiencing increased maintenance downtime and sustainment costs.</p> <p><b>Miscellaneous Aerospace Ground Equipment (AGE)(SEV)</b> The Miscellaneous AGE program consists of aircraft handling equipment along with multiple pieces of flight line support equipment and aircraft maintenance equipment. The program contains over 4,000 different National Stock Numbers supporting all USAF aircraft. The Miscellaneous AGE portfolio includes, but is not limited to aircraft jacks, aircraft towbars, aircraft slings, hoists, various aircraft fixtures, aircraft ladders, ground handling equipment, and bearings. Two of the primary projects within this program are the Hydraulic Pumping Unit (HPU) and the Multi-Aircraft Canopy Crane. HPU is a four-wheel mounted, diesel and electric driven unit capable of operating multiple jacks simultaneously on the KC-135, C-130, C-17, C-5, E-3, E-8 and B-52 aircraft. This new dual powered unit replaces legacy models experiencing obsolescence and reaching its life expectancy. The Multi-Aircraft Canopy Crane has a lifting capability of 1,500 lbs and is utilized by F-15, F16, F-22, F-35, U2, HH60, T-38 and B-52 aircraft. It is used to remove/install various aircraft components such as canopy ejection seats, ammunition drums and vertical stabilizers. The legacy crane is also much larger, requiring a bigger logistics footprint for deployments and is also experiencing maintenance and parts availability issues.</p> <p><b>Versatile Digital Automatic Test Station (VDATS) (ATS)</b> Versatile Digital Automatic Test Station (VDATS) is a tester that is used for maintenance and testing of advanced avionics components that supports multiple aircraft platforms and systems. Initially, VDATS was developed to reduce Automatic Test Systems (ATS) proliferation by standardizing depot avionics test stations. VDATS is the standard for avionics test and repair at the base and above levels. VDATS has flexible hardware and software architectures that are fully expandable and tailorable.</p> <p>The ATS described in this document were evaluated/approved by the Automatic Test Systems (ATS) Division Chief and are in line with the USAF ATS objective. The ATS program office is focused on reducing weapon system-unique ATS through replacement with a Common Versatile ATS tester that can perform similar testing across multiple weapon system platforms. The ATS Division ensures collaborative requirements planning for new ATS to reduce proliferation of new weapon system-unique ATS.</p>		

**UNCLASSIFIED**

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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 1: Common Support Equipment		<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0202834F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

The ATS portfolio consists of 7,775 individually configured pieces of test equipment. The ATS division is responsible for the modernization, sustainment and recapitalization of this equipment. Included in this portfolio are 8 nuclear certified testers. They are Bomber Armament Tester (BAT), B-52 Multi-Use Systems Tester Armament Next Generation (MUSTANG), Cruise Missile Automatic Test Systems (CM-ATS), B-2 Common Organizational Level Tester (COLT), F-16 Stores System Tester (SST), F-15 Armament Testers (T-198 & T-199), F-16 Armament Circuits Preload Test Set (ACPTS).

Requirement for cyber security: Increased emphasis and new direction regarding cyber security of off-network information systems (platform information technology, PIT) is driving the requirement to perform certification and accreditation (C&A) of new and legacy Automatic Test Systems (ATS) in order to obtain an authority-to-operate (ATO) for the system. The requirement to perform C&A on PIT involves an analysis of system architecture and a subsequent risk-based assessment of vulnerabilities. A mitigation plan for identified vulnerabilities is developed resulting in a Plan of Action and Milestones (POAM) for the system. This is an engineering intensive activity.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

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.

Program elements associated with this P-1 Line are: 0202834F, 0502834F, 0502844F, and 0701212F.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	110	2	79	0	79	-	-	-	-
	Total Obligation Authority	74.292	114.690	103.001	0.000	103.001	-	-	-	-
AFNG	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	13.301	18.654	23.028	0.000	23.028	-	-	-	-
AFR	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	5.619	16.139	12.732	0.000	12.732	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>110</b>	<b>2</b>	<b>79</b>	<b>0</b>	<b>79</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>93.212</b>	<b>149.483</b>	<b>138.761</b>	<b>0.000</b>	<b>138.761</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 1: Common Support Equipment

**P-1 Line Item Number / Title:**  
000071 / Aircraft Replacement Support Equip

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0202834F **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	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	Aircraft Engine Testing Equipment Program				- / -	- / 0.000	- / 13.286	- / 5.333	- / -	- / 5.333
P-5	B-1B Advanced REW Test Station (ARTS)		A		- / -	- / 3.400	- / 5.397	- / 6.517	- / -	- / 6.517
P-40a	Aerial Stores Lift Trucks				- / -	- / 1.000	- / 8.763	- / 18.630	- / -	- / 18.630
P-40a	Aircraft Engine Handling Equipment				- / -	- / 0.140	- / 5.749	- / -	- / -	- / -
P-40a	Aircraft Maintenance Secondary Power				- / -	- / -	- / 0.971	- / -	- / -	- / -
P-40a	AIRCRAFT MAINTENANCE STANDS				- / -	- / -	- / 1.001	- / -	- / -	- / -
P-40a	Aircraft Maintenance Testers				- / -	- / 22.188	- / 11.984	- / 15.690	- / -	- / 15.690
P-3a	1 / MHU-196/204 SLEP (Service Life Extension)		B		- / 38.775	- / 9.230	- / 11.930	- / 16.764	- / 0.000	- / 16.764
P-40a	Ammunition Loading Equipment				- / -	- / -	- / 6.386	- / 10.001	- / -	- / 10.001
P-40a	ATS - Base Maint & Spt Eq				- / -	- / 2.090	- / 7.751	- / -	- / -	- / -
P-40a	ATS TMDE-Electronic				- / -	- / 2.500	- / 6.603	- / 11.380	- / -	- / 11.380
P-40a	B-52 MUSTANG Tester				- / -	- / 1.500	- / 0.664	- / -	- / -	- / -
P-5	Bomber Armament Tester		B		- / -	- / 6.600	- / 5.482	- / 14.711	- / -	- / 14.711
P-40a	BP12 ITEMS LESS THAN 5 MILLION DOLLARS				- / -	- / 1.249	- / -	- / -	- / -	- / -
P-5	COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)		A		- / -	- / 7.000	- / 15.229	- / -	- / -	- / -
P-40a	Flight Line Generators				- / -	- / 0.000	- / 5.097	- / 3.102	- / -	- / 3.102
P-40a	FLIGHTLINE COMPRESSORS				- / -	- / 1.869	- / 2.001	- / -	- / -	- / -
P-40a	FLIGHTLINE CRYOGENIC SYSTEMS				- / -	- / 1.770	- / 2.001	- / -	- / -	- / -
P-40a	Flightline Heating, Ventilating, Air Conditioning				- / -	- / 0.000	- / 22.299	- / 28.329	- / -	- / 28.329
P-40a	Hydraulic Servicing Equipment				- / -	- / 0.000	- / 4.912	- / 5.797	- / -	- / 5.797
P-40a	JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER (JSECST)				- / -	- / 5.800	- / 0.993	- / 2.507	- / -	- / 2.507
P-40a	*MISC AEROSPACE GROUND EQUIP (AGE)				- / -	- / 0.900	- / 3.001	- / -	- / -	- / -
P-40a	Nondestructive Inspection (NDI) Joint Oil Analysis Program (JOAP)				- / -	- / 25.976	- / 7.983	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 38.775</b>	<b>- / 93.212</b>	<b>- / 149.483</b>	<b>- / 138.761</b>	<b>- / -</b>	<b>- / 138.761</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**  
FY22 procurement dollars procures support equipment items, Program Management Administration (PMA), and other government associated costs in support of installation and unit mission requirements for Air Force personnel. PMA may includes studies for DMSMS actions.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force															<b>Date:</b> May 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1							<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip								<b>Aggregated Items Title:</b> Aircraft Engine Testing Equipment Program				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware</b>																				
Advanced Control Tester (ACT)	A		-	-	-	-	-	0.000	-	-	13.286	-	-	5.333	-	-	-	-	-	5.333
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	0.000		-	3.294		-	-		-	3.294
AFNG				-	-		-	-		-	4.435		-	1.356		-	-		-	1.356
AFR				-	-		-	-		-	8.851		-	0.683		-	-		-	0.683
<b>Subtotal: Hardware</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>13.286</b>	-	-	<b>5.333</b>	-	-	-	-	-	<b>5.333</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>13.286</b>	-	-	<b>5.333</b>	-	-	-	-	-	<b>5.333</b>

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



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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Item Number / Title [DODIC]:</b> B-1B Advanced REW Test Station (ARTS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	3.400	5.397	6.517	-	6.517
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	3.400	5.397	6.517	-	6.517
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>3.400</b>	<b>5.397</b>	<b>6.517</b>	-	<b>6.517</b>

*(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)	-	-	-	-	-	-

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2020</b>			<b>FY 2021</b>			<b>FY 2022 Base</b>			<b>FY 2022 OCO</b>			<b>FY 2022 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware - Hardware End Item Cost</b>																		
Recurring Cost																		
Advanced RE/W Test Station	-	-	2.400	-	-	3.000	-	-	1.150	-	-	-	-	-	-	-	-	1.150
<i>Subtotal: Recurring Cost</i>	-	-	2.400	-	-	3.000	-	-	1.150	-	-	-	-	-	-	-	-	1.150
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	2.400	-	-	3.000	-	-	1.150	-	-	-	-	-	-	-	-	1.150
<b>Support - Support End Item Cost</b>																		
ICS	-	-	0.500	-	-	2.304	-	-	5.342	-	-	-	-	-	-	-	-	5.342
PMA Other Government Costs	-	-	0.050	-	-	0.093	-	-	0.025	-	-	-	-	-	-	-	-	0.025
IV&V	-	-	0.450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	1.000	-	-	2.397	-	-	5.367	-	-	-	-	-	-	-	-	5.367
<b>Gross/Weapon System Cost</b>	-	-	<b>3.400</b>	-	-	<b>5.397</b>	-	-	<b>6.517</b>	-	-	-	-	-	-	-	-	<b>6.517</b>

**Remarks:**

B-1 Advanced Radar/Electronic Warfare Test Station (ARTS) PEC 0701212F

B-1B Advanced Radar/Electronic Warfare Test Station (ARTS) is an automated test systems program that addresses obsolescence and support issues for the existing legacy Automatic Test Systems (ATS) which are used for the test, measurement, and analysis of Line Replaceable Units (LRU) which comprise the B-1 Bomber's ALQ-161 Defensive Avionics System (DAS). B-1B ARTS will replace the legacy ATS

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Item Number / Title [DODIC]:</b> B-1B Advanced REW Test Station (ARTS)

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

currently in Air Force inventory. B-1B ARTS will be used in the back shops of the 7th Maintenance Group at Dyess AFB, the 28th Maintenance Group at Ellsworth AFB, and the 116th Air Control Wing at Robins AFB. The 402nd Electronic Maintenance Group at Robins AFB uses this system for depot level repair.

The legacy ATS used to repair the ALQ-161 DAS on the B-1B is increasingly difficult to support because of parts obsolescence. The DAS not being fully operational will negatively affect the B-1's capability to provide global responsiveness, precision firepower with range, loiter, dash, and a significant quantity and mix of direct attack short-range and stand-off weapons.

FY20-FY23 costs growth on this program are due to contract termination with the OEM and working to recover the program through organic efforts. Procurement funds will be utilized to continue working the ARTS Recovery Strategy efforts, fund remaining ARTS Test Program Set (TPS), to implement station baseline configuration, establish an ICS contract, replace OEM's proprietary RF component in all stations, complete TPS Development and perform regression testing for delivered Test Program Sets and other associated costs with the B-1 ARTS program.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	3.400	5.397	6.517	-	6.517
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>3.400</b>	<b>5.397</b>	<b>6.517</b>	-	<b>6.517</b>

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Aggregated Items Title:</b> Aerial Stores Lift Trucks
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware</b>																				
MJ-1C	A		-	-	-	0.096	10	0.960	-	-	8.763	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-		10	0.960		-	7.124		-	0.000		-	-	-	-	0.000
AFNG			-	-	-			-		-	1.371		-	0.000		-	-	-	-	0.000
AFR			-	-	-			-		-	0.268		-	0.000		-	-	-	-	0.000
MHU-83	A		-	-	-			-		-	-		-	17.146		-	-	-	-	17.146
<i>Secondary Distribution</i>																				
AF			-	-	-			-		-	-		-	12.357		-	-	-	-	12.357
AFNG			-	-	-			-		-	-		-	3.187		-	-	-	-	3.187
AFR			-	-	-			-		-	-		-	1.602		-	-	-	-	1.602
<b>Subtotal: Hardware</b>			-	-	-	-	-	<b>0.960</b>	-	-	<b>8.763</b>	-	-	<b>17.146</b>	-	-	-	-	-	<b>17.146</b>
<b>Support Cost</b>																				
PMA Other Government Charges	A		-	-	-			0.040		-	-		-	0.100		-	-	-	-	0.100
<i>Secondary Distribution</i>																				
AF			-	-	-			0.040		-	-		-	0.100		-	-	-	-	0.100
PMA: Other Contractor Services	A		-	-	-			-		-	-		-	1.384		-	-	-	-	1.384
<i>Secondary Distribution</i>																				
AF			-	-	-			-		-	-		-	1.384		-	-	-	-	1.384
<b>Subtotal: Support Cost</b>			-	-	-	-	-	<b>0.040</b>	-	-	<b>-</b>	-	-	<b>1.484</b>	-	-	-	-	-	<b>1.484</b>
<b>Total</b>			-	-	-	-	-	<b>1.000</b>	-	-	<b>8.763</b>	-	-	<b>18.630</b>	-	-	-	-	-	<b>18.630</b>

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

**Remarks:**  
Unit costs are assumed and subject to change.

Exact quantities may vary based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 07 / 1 **P-1 Line Item Number / Title:** 000071 / Aircraft Replacement Support Equip **Aggregated Items Title:** Aircraft Engine Handling Equipment

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware</b>																				
Aircraft Engine Trailers	A		-	-	-	-	-	-	-	-	5.607	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	5.607		-	-		-	-		-	-
Miscellaneous AEHE (ERI/ECAOS)	A		-	-	-	-	-	0.140		-	0.142		-	-		-	-		-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.140		-	0.142		-	-		-	-		-	-
European Deterrence Initiative (EDI)	A		-	-	0.000	-	-	-		-	-		-	-		-	-		-	-
<b>Subtotal: Hardware</b>			-	-	-	-	-	<b>0.140</b>		-	<b>5.749</b>		-	-		-	-		-	-
<b>Total</b>			-	-	-	-	-	<b>0.140</b>		-	<b>5.749</b>		-	-		-	-		-	-

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

**Remarks:**  
 In FY22, European Deterrence Initiative (EDI) funds moved from OCO to Baseline.  
 This capability procures a multitude of related items with different unit costs.  
 Exact quantities may vary based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.  
 Program funding moved from APPN:3400 to APPN:3010 effective in FY20

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 07 / 1 **P-1 Line Item Number / Title:** 000071 / Aircraft Replacement Support Equip **Aggregated Items Title:** Aircraft Maintenance Secondary Power

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Secondary Power Unit</b>																				
Secondary Power Unit	A		-	-	-	-	-	-	-	0.971	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	0.971	-	-	-	-	-	-	-	-	-	
<b>Subtotal: Secondary Power Unit</b>			-	-	-	-	-	-	-	<b>0.971</b>	-	-	-	-	-	-	-	-	-	
<b>Total</b>			-	-	-	-	-	-	-	<b>0.971</b>	-	-	-	-	-	-	-	-	-	

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Aggregated Items Title:</b> AIRCRAFT MAINTENANCE STANDS
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Aircraft Maintenance Stands</b>																				
Hardware	A		-	-	-	-	-	-	-	-	1.001	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	1.001	-	-	-	-	-	-	-	-	-
<b>Subtotal: Aircraft Maintenance Stands</b>			-	-	-	-	-	-	-	-	<b>1.001</b>	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	-	-	-	-	-	-	<b>1.001</b>	-	-	-	-	-	-	-	-	-

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force** **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 07 / 1 **P-1 Line Item Number / Title:** 000071 / Aircraft Replacement Support Equip **Aggregated Items Title:** Aircraft Maintenance Testers

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware</b>																				
Testers: Avionics, Radar, Radio	A		-	-	-	-	-	6.326	-	-	3.878	-	-	5.230	-	-	-	-	-	5.230
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	2.000	-	-	3.878	-	-	3.398	-	-	-	-	-	3.398
AFNG			-	-	-	-	-	2.788	-	-	-	-	-	1.219	-	-	-	-	-	1.219
AFR			-	-	-	-	-	1.538	-	-	-	-	-	0.613	-	-	-	-	-	0.613
Optical Devices	A		-	-	-	-	-	11.023	-	-	3.878	-	-	5.230	-	-	-	-	-	5.230
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	5.400	-	-	3.878	-	-	3.398	-	-	-	-	-	3.398
AFNG			-	-	-	-	-	4.087	-	-	-	-	-	1.219	-	-	-	-	-	1.219
AFR			-	-	-	-	-	1.536	-	-	-	-	-	0.613	-	-	-	-	-	0.613
Misc Electronic Devices	A		-	-	-	-	-	4.489	-	-	3.878	-	-	5.230	-	-	-	-	-	5.230
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.494	-	-	3.878	-	-	3.398	-	-	-	-	-	3.398
AFNG			-	-	-	-	-	2.241	-	-	-	-	-	1.219	-	-	-	-	-	1.219
AFR			-	-	-	-	-	0.754	-	-	-	-	-	0.613	-	-	-	-	-	0.613
<b>Subtotal: Hardware</b>			-	-	-	-	-	<b>21.838</b>	-	-	<b>11.634</b>	-	-	<b>15.690</b>	-	-	-	-	-	<b>15.690</b>
<b>Support</b>																				
PMA: Other Contractor Services	A		-	-	-	-	-	0.300	-	-	0.300	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.300	-	-	0.300	-	-	-	-	-	-	-	-	-
PMA: Other Government Charges	A		-	-	-	-	-	0.050	-	-	0.050	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.050	-	-	0.050	-	-	-	-	-	-	-	-	-
<b>Subtotal: Support</b>			-	-	-	-	-	<b>0.350</b>	-	-	<b>0.350</b>	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	-	-	-	<b>22.188</b>	-	-	<b>11.984</b>	-	-	<b>15.690</b>	-	-	-	-	-	<b>15.690</b>

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

**Remarks:**  
 This capability procures a multitude of related items with different unit costs.  
  
 Exact quantities may vary based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.  
  
 PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies, studies and Advisory and Administrative Services (A&AS).  
  
 PMA OTHER CONTRACTOR SERVICES: This funding includes provisions for government contract oversight, technical expertise, and program office support associated with the Aircraft Maintenance Testers Program.

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Aggregated Items Title:</b> Aircraft Maintenance Testers
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Prior to FY20PB, program funding was captured under BP12 ITEMS LESS THAN 5 MILLION DOLLARS P-40a: FAST CHARACTERIZATION TOOL (FACT)



**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Modification Number / Title:</b> 1 / MHU-196/204 SLEP

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B			<b>MDAP/MAIS Code:</b>			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	38.775	9.230	11.930	16.764	0.000	16.764
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	38.775	9.230	11.930	16.764	0.000	16.764
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>38.775</b>	<b>9.230</b>	<b>11.930</b>	<b>16.764</b>	<b>0.000</b>	<b>16.764</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-

**Description:**

The legacy munitions handling units (MHU) program consists of the MHU-196/M and MHU-204/M. These MHUs are unsustainable due to parts obsolescence and are experiencing uncommand responses due to antiquated electronic and hydraulic systems as identified in the requirements documents (AF FORM 1067, modification proposals, AFGSC 18-090 and AFGSC 18-090). These MHUs will be replaced by the modified MHU-196B/M and MHU-204B/M units. This program will extend the service life by assessing the structural integrity and repairing the legacy control and power system. OO-ALC, is/may be expanding their facility production and investing in additional space, support equipment and manpower as part of modification facility activation. This modification also alleviates part obsolescence and addresses diminishing manufacturing sources. Total non-recurring cost are for the depot activation: facilities, support equipment, and other support as required. The munitions lift trailers have met and exceeded the original service life of 20 years, and this effort is to provide an additional 20 years of service.

To support modification effort, PMA funding may be used for A&AS support, tech data validation/verification and program travel requirements. Group A kits are not required; all components parts are/will be stock listed, either by the Program Management Office, Defense Logistics Agency (DLA) and/or the Air Force Sustainment Center (AFSC). Assets are used in support of nuclear and conventional operations. Air Force Global Strike Command (AFGSC) requested a production time line of 8 years. In order to meet this, additional funding is required for depot activation.

PMA Justification: The program team will use PMA to allow the USAF program office to assist in planning support needed to produce and install the modification, oversee the modification, evaluate engineering change proposals and help resolve technical issues. PMA will also support program management reviews (PMRs) to discuss production schedules, as well as current programmatic /technical issues and impacts to the program.

Impact if PMA not funded: Increases programmatic risk to the USAF program office by not being able to provide program support to resolve cost, schedule or technical issues in a timely manner that could result in delays. Degradation of the modification program will directly affect operational safety, suitability and effectiveness of transporting and handling conventional and nuclear munitions. This affects the support of strategic, long range bombing throughout the world.

Group B Non-recurring includes the Depot activation Costs for FY14-23. A larger facility (Bldg. 850) is required to accommodate the production required to satisfy AFGSC time line requirement of an 8 year program. It also includes the contract issues by the depot production process and technical documentation requirements.

Group B kits represent MHU inducted by the depot for SLEP.

Group A kits are not required; all components parts are/will be stock listed, either by the Program Management Office, Defense Logistics Agency (DLA) and/or the Air Force Sustainment Center (AFSC).

Total Non-recurring cost are for the depot activation: facilities, support equipment, and other support as required.

Impact if not funded: The program would cease to exist. Alternate sources for production would need to be acquired which will delay any SLEP production for at least 12-18 months.

Other Government Cost includes: Testing required for Nuclear Certification and unknown miscellaneous support/expenses associated with the Nuclear Certification.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Modification Number / Title:</b> 1 / MHU-196/204 SLEP
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>

Impact if Other Government Cost not funded: Since the MLT/MHU(Munitions Lift Trailer/Munitions Handling Unit) is required to be nuclear certified, the lack of funding would gravely degraded the capability of the MHU mission because MHU production could not be fielded without nuclear certification.

Milestone/Development Status

Studies have been accomplished providing necessary technical data to extend the service life of the fleet to meet mission needs. These studies addressed obsolescence and component level repair and sustainment issues.

The depot has disassembled/reassembled two legacy trailer, allowing them to create the production control documents and processes required to produce the final SLEP trailers.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	9.230	11.930	16.764	-	16.764
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>9.230</b>	<b>11.930</b>	<b>16.764</b>	<b>0.000</b>	<b>16.764</b>

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2022 Air Force</b>					<b>Date: May 2021</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1			<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip		<b>Modification Number / Title:</b> 1 / MHU-196/204 SLEP	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>		
<b>Models of Systems Affected:</b> MHU-196, 204		<b>Modification Type:</b> Service Life Extension		<b>Related RDT&amp;E PEs:</b>		
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>						
<i>Modification Item 1 of 1: MLT Mod Kit</i>						
B Kits						
Recurring						
MLT Mod Kit:EQUIPMENT Group B (Active)	- / 6.848	- / -	9 / 11.584	11 / 15.100	- / -	11 / 15.100
<i>Subtotal: Recurring</i>	<i>- / 6.848</i>	<i>- / -</i>	<i>- / 11.584</i>	<i>- / 15.100</i>	<i>- / -</i>	<i>- / 15.100</i>
<i>Subtotal: MLT Mod Kit</i>	<i>- / 6.848</i>	<i>- / -</i>	<i>- / 11.584</i>	<i>- / 15.100</i>	<i>- / -</i>	<i>- / 15.100</i>
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 6.848</i>	<i>- / -</i>	<i>- / 11.584</i>	<i>- / 15.100</i>	<i>- / -</i>	<i>- / 15.100</i>
<b>Support (All Modification Items)</b>						
GROUP A: TOTAL NONRECURRING	- / -	- / 17.573	- / -	- / -	- / -	- / -
GROUP B: TOTAL NONRECURRING	- / 28.435	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP	- / 12.724	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / 0.768	- / 0.107	- / 0.109	- / 1.600	- / -	- / 1.600
OTHER GOVT	- / -	- / 1.550	- / 0.237	- / 0.064	- / -	- / 0.064
<i>Subtotal: Support</i>	<i>- / 31.927</i>	<i>- / 9.230</i>	<i>- / 0.346</i>	<i>- / 1.664</i>	<i>- / -</i>	<i>- / 1.664</i>
<b>Installation</b>						
<i>Modification Item 1 of 1: MLT Mod Kit</i>						
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>9 / 0.000</i>	<i>17 / 0.000</i>	<i>- / -</i>	<i>17 / 0.000</i>
<b>Total</b>						
<b>Total Cost (Procurement + Support + Installation)</b>	<b>38.775</b>	<b>9.230</b>	<b>11.930</b>	<b>16.764</b>	<b>0.000</b>	<b>16.764</b>

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<b>Exhibit P-3a, Individual Modification:</b> PB 2022 Air Force	<b>Date:</b> May 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Modification Number / Title:</b> 1 / MHU-196/204 SLEP
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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**Modification Item 1 of 1:** MLT Mod Kit

**Manufacturer Information**

Manufacturer Name: Depot/ALC	Manufacturer Location: Hill AFB, Utah
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 4

Dates	FY 2020	FY 2021	FY 2022
Contract Dates		Apr 2021	Apr 2022
Delivery Dates		Aug 2021	Aug 2022

**Installation Information**

**Method of Implementation:** Depot

Installation Cost	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (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 2020	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	9 / 0.000	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	17 / 0.000	- / -	17 / 0.000
<b>Total</b>	- / -	- / -	9 / 0.000	17 / 0.000	- / -	17 / 0.000

**Installation Schedule**

PYS	FY 2020				FY 2021				FY 2022				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
In	0	-	-	-	-	2	2	3	2	4	4	5	4
Out	0	-	-	-	-	-	-	1	3	3	2	3	5

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 07 / 1 **P-1 Line Item Number / Title:** 000071 / Aircraft Replacement Support Equip **Aggregated Items Title:** Ammunition Loading Equipment

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Ammo Loaders</b>																				
Ammo Loaders	A		-	-	-	-	-	-	-	-	6.386	-	-	10.001	-	-	-	-	-	10.001
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	3.889	-	-	7.434	-	-	-	-	-	7.434
AFNG			-	-	-	-	-	-	-	-	-	-	-	1.707	-	-	-	-	-	1.707
AFR			-	-	-	-	-	-	-	-	2.497	-	-	0.860	-	-	-	-	-	0.860
<b>Subtotal: Ammo Loaders</b>			-	-	-	-	-	-	-	-	<b>6.386</b>	-	-	<b>10.001</b>	-	-	-	-	-	<b>10.001</b>
<b>Total</b>			-	-	-	-	-	-	-	-	<b>6.386</b>	-	-	<b>10.001</b>	-	-	-	-	-	<b>10.001</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Aggregated Items Title:</b> ATS - Base Maint & Spt Equip
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Base Maintenance and Support Equipment</b>																				
Base Maintenance and Support Equipment	A		-	-	-	-	-	1.790	-	-	7.451	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.790	-	-	7.451	-	-	-	-	-	-	-	-	
Test Set, Transponder (IFF)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Common Munitions Built-in Test Reprogramming Equipment	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyber Security/ Support	A		-	-	-	-	-	0.100	-	-	0.100	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.100	-	-	0.100	-	-	-	-	-	-	-	-	
Armament Test Sets	A		-	-	-	-	-	0.100	-	-	0.100	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.100	-	-	0.100	-	-	-	-	-	-	-	-	
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.100	-	-	0.100	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.100	-	-	0.100	-	-	-	-	-	-	-	-	
<b>Subtotal: Base Maintenance and Support Equipment</b>			-	-	-	-	-	<b>2.090</b>	-	-	<b>7.751</b>	-	-	-	-	-	-	-	-	
<b>Total</b>			-	-	-	-	-	<b>2.090</b>	-	-	<b>7.751</b>	-	-	-	-	-	-	-	-	

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

**Remarks:**

Funding moved here from P-40a Items less than 5 million dollars

**ATS - Base Maintenance and Support Equipment (ATS)**

ATS - Base Maintenance and Support Equipment procurement dollars will be used in support of the purchase/upgrades of Armament Test Sets, purchase of Common Cargo ATS, hardware, TPS and other support to ensure cyber secure Automatic Test Systems and costs associated with Common items (used on more than one weapon system) and peculiar items (unique to one weapon system) automated test equipment for the Automatic Test Systems Division. These replacement items ensure continuation of serviceable equipment over the life of a weapon system. Items for procurement include, but are not limited to, test adapter kits, transponder test sets, Portable Automatic Test Sets, Radar Signal Simulators (RSS), logistics under attack cyber efforts, digital test stations, automated wire test sets, propulsion automatic test equipment, automatic test equipment calibration, smart weapons test sets, optical and ancillary testers, Commercial Off the Shelf (COTS) Automatic Test Equipment (ATE).

PMA Other Government Costs applies to travel in relation to multiple platforms to include, but are not limited to F-16, B-52, B-1, B-2, F-15, A-10, cyber support, and other government costs in support of Automatic Test Systems programs and the Automatic Test System program office. Programs include, but are not limited to, ATS Standardization, Portable Automatic Test Sets (PATS), Identification Friend or Foe-Radar Test Set (IFF-RTS), Electrical Electronics Equipment Test Station (EEETS), Common Organizational Level Tester (COLT), Armament Test Sets (ATS), Automated Wiring Test Set (AWTS), Electronic Warfare (EW) Chaff/Flare, Radar Signal Simulator (RSS)(AN/PLM-4), Radio Frequency Transmission Line Test Set (RFTLTS), Benchtop Reprogrammable Test System (BRAT), Helmet Cueing System Automatic Test Equipment (HCS-ATE) Commercial Off the Shelf (COTS) Automatic Test Equipment (ATE).

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Aggregated Items Title:</b> ATS - Base Maint & Spt Eq

Empty justification area for budget item 000071.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Aggregated Items Title:</b> ATS TMDE-Electronic
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>TMDE</b>																				
TMDE	A		-	-	-	-	-	2.500	-	-	6.603	-	-	11.380	-	-	-	-	-	11.380
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	2.500	-	-	2.279	-	-	0.000	-	-	-	-	-	0.000
AFNG			-	-	-	-	-	0.000	-	-	2.594	-	-	6.828	-	-	-	-	-	6.828
AFR			-	-	-	-	-	0.000	-	-	1.730	-	-	4.552	-	-	-	-	-	4.552
<b>Subtotal: TMDE</b>			-	-	-	-	-	<b>2.500</b>	-	-	<b>6.603</b>	-	-	<b>11.380</b>	-	-	-	-	-	<b>11.380</b>
<b>Total</b>			-	-	-	-	-	<b>2.500</b>	-	-	<b>6.603</b>	-	-	<b>11.380</b>	-	-	-	-	-	<b>11.380</b>

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

**Remarks:**

Funding moved here from P-40a Items less than 5 million dollars

TMDE supports 5 programs : TMDE Analyzer, TMDE Calibrators, TMDE Generic, TMDE Meters, and TMDE Test Sets.

Items that are made up of generic Commercial Off the Shelf Automatic Test Equipment (COTS-ATE). These items range from man portable/bench-top equipment which provide measurement capabilities to instruments that check measures against an accurate standard to determine any deviation. Items include length gauges, depth gauges, bore gauges, calipers, chemical composition devices, and other devices

Various devices designed to measure time, distance, speed, or intensity or indicate and record or regulate the amount or volume, as of the flow of a gas, resistance, power, mechanical properties, conductivity, material composition, optical investigation or an electric current such as flow meters, microscopes, current meters, voltage meters, ohm meters, bridges, non-destructive testing and others.

TMDE analyzers are devices that investigate the physical or electrical factors of an item under test. The major types of analyzers are bus, logic, network, spectrum and vector signal. Program provides for replacement buys, organic including inter-service and contract repair for all Department of Defense military branches, Foreign Military Sales (FMS) and other agencies.

Instruments designed for a specific type of measurement to validate the performance of radios, RADAR, navigation, avionics, telephone, data, circuit cards and other items that have multiple parameters that must be verified to ensure optimum performance and mission accomplishment which may be computer controlled or may be manually operated.



**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Aggregated Items Title:</b> B-52 MUSTANG Tester
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>B52 MUSTANG</b>																				
Kits and Implementation	A		-	-	-	0.125	12	1.500	-	-	0.664	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		12	1.500		-	0.664		-	-		-	-	-	-	
<b>Subtotal: B52 MUSTANG</b>			-	-	-	-	-	<b>1.500</b>	-	-	<b>0.664</b>	-	-	-	-	-	-	-	-	
<b>Total</b>			-	-	-	-	-	<b>1.500</b>	-	-	<b>0.664</b>	-	-	-	-	-	-	-	-	

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

**Remarks:**  
MUSTANG Refresh effort currently in work with Boeing will complete in 4th quarter of FY20. This requirement is for the kits and implementation of the identified DMSMS solution.

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Item Number / Title [DODIC]:</b> Bomber Armament Tester

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	6.600	5.482	14.711	-	14.711
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	6.600	5.482	14.711	-	14.711
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>6.600</b>	<b>5.482</b>	<b>14.711</b>	-	<b>14.711</b>

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

Initial Spares (\$ in Millions)	-	-	1.097	2.999	-	2.999
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - BOMBER ARMAMENT TESTER (BAT) Cost</b>																		
Recurring Cost																		
BAT Production	-	-	-	-	-	6.500	-	-	5.382	-	-	14.611	-	-	-	-	-	14.611
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.500	-	-	5.382	-	-	14.611	-	-	-	-	-	14.611
<i>Subtotal: Hardware - BOMBER ARMAMENT TESTER (BAT) Cost</i>	-	-	-	-	-	6.500	-	-	5.382	-	-	14.611	-	-	-	-	-	14.611
<b>Support - BOMBER ARMAMENT TESTER (BAT) Cost</b>																		
PMA OOther govt cost	-	-	-	-	-	0.100	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Support - BOMBER ARMAMENT TESTER (BAT) Cost</i>	-	-	-	-	-	0.100	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	6.600	-	-	5.482	-	-	14.711	-	-	-	-	-	14.711

**Remarks:**

Funds needed to manufacture and establish depot repair capability for the Bomber Armament Tester (BAT), a nuclear certified common tester capable of testing on-aircraft Stores Management Systems and Line Replacement Units both on-and off-aircraft. The BAT System will test functionality of the Armament Mission Equipment (AME) that is required for B-2A, B-1B, and B-52H weapons delivery.

FY22 funds will cover BAT production, PMA costs, travel, and other support expenses.

Without FY22 funding, production will slip and delay program fielding and require continued reliance on six aging legacy testers that will not support Global Strike Command's readiness requirements.

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<b>Exhibit P-5, Cost Analysis:</b> PB 2022 Air Force	<b>Date:</b> May 2021
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Item Number / Title [DODIC]:</b> Bomber Armament Tester
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<b>Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	6.600	5.482	14.711	-	14.711
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	<b>6.600</b>	<b>5.482</b>	<b>14.711</b>	-	<b>14.711</b>

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force															<b>Date:</b> May 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1										<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip					<b>Aggregated Items Title:</b> BP12 ITEMS LESS THAN 5 MILLION DOLLARS				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>SUPPORT EQUIPMENT AND VEHICLES (SEV)</b>																				
FAST CHARACTERIZATION TOOL (FACT) 4920015711970RN (SEV)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FAST CHARACTERIZATION TOOL (FACT) 4920015654320RN (SEV)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FLIGHT LINE GENERATORS (SEV)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B-1 MAINTENANCE STANDS 1730015544187RN (SEV)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B-4 MAINTENANCE STANDS 1730015554366RN (SEV)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A/M24T-16 LOAD BANK (SEV)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MISCELLANEOUS AGE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PMA CONTRACTOR SERVICES	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PMA OTHER GOVERNMENT COSTS (SEV)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ADVANCED CONTROL TESTER (ACT) (SEV)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Subtotal: SUPPORT EQUIPMENT AND VEHICLES (SEV)</b>			<b>0.000</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>AIR FORCE SUSTAINMENT CENTER (OC-ALC)</b>																				
FSC 1660 AIRCRAFT AIR CONDITIONING, HEAT AND PRESSURIZING EQUIPMENT (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 1730 AIRCRAFT GROUND SERVICING EQUIPMENT (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force** **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F / 07 / 1

**P-1 Line Item Number / Title:**  
000071 / Aircraft Replacement Support Equip

**Aggregated Items Title:**  
BP12 ITEMS LESS THAN 5 MILLION DOLLARS

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
FSC 3940 BLOCK, TACKLE, RIGGING, SLING (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 3990 MISCELLANEOUS MATERIALS HANDLING EQUIPMENT (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 4920 AIRCRAFT MAINT SHOP SPECIALIZED EQP (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 4935 GUIDED MISSILE MAINTENANCE, REP, AND CHECKOUT SPECIALIZED EQUIPMENT (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 5120 HAND TOOLS, NON-EDGED, NON-POWERED (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 5130 HAND TOOLS, POWER DRIVE (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 5180 SPECIALIZED EQUIPMENTS, KITS, OUTFITS/HAND TOOLS (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 6625 ELECTRICAL AND ELECTRONIC PROPERTIES MEASURING, TEST INSTRUMENTS (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 6635 PHYSICAL PROPERTIES TESTING AND INSPECTION EQUIPMENT (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Subtotal: AIR FORCE SUSTAINMENT CENTER (OC-ALC)</b>			-	-	<b>0.000</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>OTHER</b>																				
F-16 SQUADRON	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force																<b>Date:</b> May 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1						<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip						<b>Aggregated Items Title:</b> BP12 ITEMS LESS THAN 5 MILLION DOLLARS								

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
C-130 MSN Ready Ops	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rivot Joint Mods	A		-	-	-	-	-	1.249	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.249	-	-	-	-	-	-	-	-	-	-	-	
<b>Subtotal: OTHER</b>			-	-	-	-	-	<b>1.249</b>	-	-	-	-	-	-	-	-	-	-	-	
<b>Total</b>			-	-	-	-	-	<b>1.249</b>	-	-	-	-	-	-	-	-	-	-	-	

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

**Remarks:**  
 FEDERAL STOCK CLASS (FSC)  
  
 Support Equipment and Vehicles (SE&V)  
 'Fast Characterization Tool (FACT) 4920015711970RN' falls within the AIRCRAFT MAINTENANCE TESTERS Program  
  
 'B-1 Maintenance Stands 1730015544187RN' and 'B-4 Maintenance Stands 1730015554366RN' both fall within the AIRCRAFT MAINTENANCE STANDS Program.  
  
 'A/M24T-16 Load Bank' falls within the SECONDARY POWER Program.  
  
 'Advanced Control Tester (ACT)(SEV)' falls within the AIRCRAFT ENGINE TEST EQUIPMENT Program.  
  
 'Miscellaneous AGE' falls within the MISC AEROSPACE GROUND EQUIP (AGE) Program  
  
 PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies, studies and Advisory and Administrative Services (A&AS).  
  
 FY20 SE&V procurement dollars support the European Contingency Air Operations System (ECAOS)/Deployable Air Base System (DABS) - Facilities, Equipment, and Vehicles (FEV).  
  
 Capabilities procure a multitude of related items with different unit costs.  
  
 Funds for FY20 were moved to the new P-40a's for system being acquired.  
  
 Exact quantities may vary based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Item Number / Title [DODIC]:</b> COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	7.000	15.229	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	7.000	15.229	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>7.000</b>	<b>15.229</b>	-	-	-

*(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)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</b>																		
Recurring Cost																		
Mobile Maintenance Terminal	-	-	-	0.015	265	3.975	0.015	350	5.250	-	-	-	-	-	-	-	-	-
Cable Sets and Case	-	-	-	0.050	60	3.000	-	-	-	-	-	-	-	-	-	-	-	-
NIM Production & Assembly	-	-	-	-	-	-	-	-	9.586	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.975	-	-	14.836	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</i>	-	-	-	-	-	6.975	-	-	14.836	-	-	-	-	-	-	-	-	-
<b>Logistics - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</b>																		
Non Recurring Cost																		
Drawings	-	-	-	-	-	-	-	-	0.142	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	0.142	-	-	-	-	-	-	-	-	-
<i>Subtotal: Logistics - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</i>	-	-	-	-	-	-	-	-	0.142	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Item Number / Title [DODIC]:</b> COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost																		
PMA Other Government Services	-	-	-	0.025	1	0.025	-	-	0.251	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</i>	-	-	-	-	-	0.025	-	-	0.251	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	7.000	-	-	15.229	-	-	-	-	-	-	-	-	-

**Remarks:**

FY21 funds reduced as a result of INV-001.

FY19-21 funds will be used for production activities for the cyber secure Common Aircraft Portable Reprogramming Equipment Secure Memory Loader Verifier. (CAPRE-SMLV)

FY19-21 CAPRE funds will be used to purchase full CAPRE secure memory loader verifier (SMLV) and accessory equipment for the CAPRE SMLV. FY19-21 funding will also be used produce cables and cables sets and procure replacement laptops, produce Networked Interface Module (NIM). Cable Sets include an average of 35 to 52 cables and cases for cables. NIM production includes the enclosures, assembly, and adapter cables.

FY19-21 PMA dollars will be used for the necessary travel, A&AS support and any necessary program related expenses associated with CAPRE production activities.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	7.000	15.229	-	-	-
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	7.000	15.229	-	-	-



**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force															<b>Date:</b> May 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1						<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip						<b>Aggregated Items Title:</b> Flight Line Generators							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Large & Small Flightline Generator	A		-	-	-	-	-	0.000	-	-	3.097	-	-	3.102	-	-	-	-	-	3.102
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	0.000		-	3.102		-	-		-	3.102
AFNG				-	-		-	0.000		-	3.097		-	0.000		-	-		-	0.000
AFR				-	-		-	0.000		-	0.000		-	0.000		-	-		-	0.000
Large & Small Flightline Generator (EDI/ECAOS)	A		-	-	-	-	-	0.000	-	-	2.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	2.000		-	0.000		-	-		-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>5.097</b>	-	-	<b>3.102</b>	-	-	-	-	-	<b>3.102</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>5.097</b>	-	-	<b>3.102</b>	-	-	-	-	-	<b>3.102</b>

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

**Remarks:**  
 This capability procures a multitude of related items with different unit costs.  
 Exact quantities may vary based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Aggregated Items Title:</b> FLIGHTLINE COMPRESSORS
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>End Item</b>																				
Small Compressor	A		-	-	-	-	-	1.869	-	-	2.001	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.869	-	-	2.001	-	-	-	-	-	-	-	-	
<b>Subtotal: End Item</b>			-	-	-	-	-	<b>1.869</b>	-	-	<b>2.001</b>	-	-	-	-	-	-	-	-	
<b>Total</b>			-	-	-	-	-	<b>1.869</b>	-	-	<b>2.001</b>	-	-	-	-	-	-	-	-	

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

**Remarks:**

This capability procures a multitude of related items with different unit costs.

Exact quantities may vary based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.

FY20 procurement dollars support the European Contingency Air Operations System (ECAOS)/Deployable Air Base System (DABS) - Facilities, Equipment, and Vehicles (FEV).

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Aggregated Items Title:</b> FLIGHTLINE CRYOGENIC SYSTEMS
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
HP-SGNSC	A		-	-	-	-	-	1.770	-	-	2.001	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.770	-	-	2.001	-	-	-	-	-	-	-	-	
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>1.770</b>	-	-	<b>2.001</b>	-	-	-	-	-	-	-	-	
<b>Total</b>			-	-	-	-	-	<b>1.770</b>	-	-	<b>2.001</b>	-	-	-	-	-	-	-	-	

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

**Remarks:**

This capability procures a multitude of related items with different unit costs.

Exact quantities may vary based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.

FY20 procurement dollars support the European Contingency Air Operations System (ECAOS)/Deployable Air Base System (DABS) - Facilities, Equipment, and Vehicles (FEV).

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force															<b>Date:</b> May 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1						<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip						<b>Aggregated Items Title:</b> Flightline Heating, Ventilating, Air Conditioning							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>End Item Costs</b>																				
Large & Small Flightline HVAC	A		-	-	-	-	-	0.000	-	-	16.302	-	-	28.329	-	-	-	-	-	28.329
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	6.537	-	-	21.047	-	-	-	-	-	21.047
AFNG			-	-	-	-	-	0.000	-	-	7.024	-	-	4.846	-	-	-	-	-	4.846
AFR			-	-	-	-	-	0.000	-	-	2.741	-	-	2.436	-	-	-	-	-	2.436
Large & Small Flightline HVAC (EDI/ ECAOS)	A		-	-	-	-	-	0.000	-	-	5.997	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	5.997	-	-	-	-	-	-	-	-	-
<b>Subtotal: End Item Costs</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>22.299</b>	-	-	<b>28.329</b>	-	-	-	-	-	<b>28.329</b>
<b>Support End Item Costs</b>																				
PMA: Other Government Charges	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
PMA: Other Contractor Services	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
<b>Subtotal: Support End Item Costs</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>22.299</b>	-	-	<b>28.329</b>	-	-	-	-	-	<b>28.329</b>

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

**Remarks:**  
 This capability procures a multitude of related items with different unit costs.  
 Exact quantities may vary from what is forecasted based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.  
 PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies, studies and Advisory and Administrative Services (A&AS).  
 Prior to FY20PB, the program name was referenced as Flight Line Air Conditioning and A/M32C-25 Large Air Conditioner.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Aggregated Items Title:</b> Hydraulic Servicing Equipment
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware</b>																				
UNIVERSAL TRIPLE HYDRAULIC TEST STAND (3 SYS) (DIESEL)	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	0.000		-	-		-	-		-	
UNIVERSAL TRIPLE HYDRAULIC TEST STAND (3 SYS) (ELECTRIC)	A		-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	0.000		-	-		-	-		-	
UNIVERSAL HYDRAULIC TEST STAND (2 SYS) (DIESEL)	A		-	-	-	-	-	0.000	-	-	4.912	-	-	5.797	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	4.727		-	3.590		-	-		-	
AFNG				-	-		-	-		-	0.133		-	1.447		-	-		-	
AFR				-	-		-	0.000		-	0.052		-	0.760		-	-		-	
UNIVERSAL HYDRAULIC TEST STAND (2 SYS) (ELECTRIC)	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	0.000		-	-		-	-		-	
European Deterrence Initiative (EDI)	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	0.000	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		-	0.000		-	-		-	
<b>Subtotal: Hardware</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>4.912</b>	-	-	<b>5.797</b>	-	-	-	-	<b>5.797</b>	
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>4.912</b>	-	-	<b>5.797</b>	-	-	-	-	<b>5.797</b>	

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

**Remarks:**

This capability procures a multitude of related items with different unit costs.

Exact quantities may vary from what is forecasted based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force</b>															<b>Date: May 2021</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1										<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip					<b>Aggregated Items Title:</b> JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER (JSECST)				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Joint Service Electronic Combat Systems Tester (JSECST)</b>																				
Joint Service Electronic Combat Systems Tester (JSECST)	A		-	-	-	0.402	13	5.226	0.470	2	0.940	0.470	4	1.880	-	-	-	0.470	4	1.880
<i>Secondary Distribution</i>																				
AF			-	-	-		13	5.226		2	0.940		4	1.880		-	-		4	1.880
AFNG			-	-	-		-	-		-	0.000		-	-		-	-		-	-
PMA Other Government Costs	A		-	-	-	-	-	0.274	-	-	0.053	-	-	0.025	-	-	-	-	-	0.025
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.274	-	-	0.053	-	-	0.025	-	-	-	-	-	0.025
PMA Other Government Support	A		-	-	-	-	-	-	-	-	-	-	-	0.302	-	-	-	-	-	0.302
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	0.302	-	-	-	-	-	0.302
Kit Installations	A		-	-	-	0.004	75	0.300	-	-	-	0.004	75	0.300	-	-	-	0.004	75	0.300
<i>Secondary Distribution</i>																				
AF			-	-	-		75	0.300		-	-		75	0.300		-	-		75	0.300
<b>Subtotal: Joint Service Electronic Combat Systems Tester (JSECST)</b>			-	-	-	-	-	<b>5.800</b>	-	-	<b>0.993</b>	-	-	<b>2.507</b>	-	-	-	-	-	<b>2.507</b>
<b>Total</b>			-	-	-	-	-	<b>5.800</b>	-	-	<b>0.993</b>	-	-	<b>2.507</b>	-	-	-	-	-	<b>2.507</b>

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

**Remarks:**

FY21 funds reduced as a result of INV-001.

FY20-24 unit cost is 402K per unit. FY20-24 PMA dollars will be used for the necessary travel associated with fielding the Joint Service Electronic Combat System Tester (JSECST) and for kits install.

FY20-22 funds required for AN/USM-670A Joint Service Electronic Combat System Testers (JSECST) end item procurement and necessary travel to support procurement and USM-670 to USM 670A kit installation.

The Joint Service Electronic Combat Systems Tester (JSECST) provides an organizational level (O-level) flight line capability for verifying the operational status of aircraft installed Electronic Combat (EC) systems including their associated installed antennas, transmission lines, radomes, cockpit displays, controls and EC suite communication buses. It also provides EC system malfunction diagnostics. The JSECST provides end-to-end (ETE) functional testing to determine the status of EC system installed in or on operational aircraft. It automatically determines the go/no-go status of the EC system with minimal technician interaction. In cases where the EC system has a critical fault, the JSECST detects the critical failure, identifies the ETE test that failed, and provides the diagnostics to isolate the failed aircraft transmission line path/component or line replaceable unit (LRU). The JSECST can be operated in automatic or manual mode to provide identification and isolation of failed EC systems. This equipment support

Air Force weapon systems A-10, F-15, and F-16 aircraft. Failure to procure this item would compromise the safety of more than 53 units supporting A-10s, CV-22, F-15s, and F-16s. The JSECST is a defensive system tester, equipping the warfighter with safe and fully functional electronic combat systems.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force															<b>Date:</b> May 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1						<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip						<b>Aggregated Items Title:</b> 'MISC AEROSPACE GROUND EQUIP (AGE)							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>End Items</b>																				
Various Misc AGE Equipment	A		-	-	-	-	-	0.900	-	-	3.001	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.900	-	-	3.001	-	-	-	-	-	-	-	-	-
<b>Subtotal: End Items</b>			-	-	-	-	-	<b>0.900</b>	-	-	<b>3.001</b>	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	-	-	-	<b>0.900</b>	-	-	<b>3.001</b>	-	-	-	-	-	-	-	-	-

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

**Remarks:**  
 This capability procures a multitude of related items with different unit costs.  
 Exact quantities may vary based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.  
 FY20 procurement dollars support the European Contingency Air Operations System (ECAOS)/Deployable Air Base System (DABS) - Facilities, Equipment, and Vehicles (FEV).

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force															<b>Date:</b> May 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1							<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip								<b>Aggregated Items Title:</b> Nondestructive Inspection (NDI) Joint Oil Analysis Program (JOAP)				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware</b>																				
Spectrometer Replacement	A		-	-	-	-	-	16.800	-	-	7.983	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	15.300		-	7.983		-	-		-	-		-	-
AFNG				-	-		-	1.000		-	-		-	-		-	-		-	-
AFR				-	-		-	0.500		-	-		-	-		-	-		-	-
X-Ray Equipment	A		-	-	-	-	-	8.302	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	3.957		-	-		-	-		-	-		-	-
AFNG				-	-		-	3.065		-	-		-	-		-	-		-	-
AFR				-	-		-	1.280		-	-		-	-		-	-		-	-
Misc NDI Equipment	A		-	-	-	-	-	0.524	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.393		-	-		-	-		-	-		-	-
AFNG				-	-		-	0.120		-	-		-	-		-	-		-	-
AFR				-	-		-	0.011		-	-		-	-		-	-		-	-
<b>Subtotal: Hardware</b>			-	-	-	-	-	<b>25.626</b>	-	-	<b>7.983</b>	-	-	-	-	-	-	-	-	-
<b>Support</b>																				
PMA: Other Contractor Services	A		-	-	-	-	-	0.300	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.300		-	-		-	-		-	-		-	-
PMA: Other Government Charges	A		-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.050		-	-		-	-		-	-		-	-
<b>Subtotal: Support</b>			-	-	-	-	-	<b>0.350</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	-	-	-	<b>25.976</b>	-	-	<b>7.983</b>	-	-	-	-	-	-	-	-	-

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

**Remarks:**

This capability procures a multitude of related items with different unit costs.

Exact quantities may vary based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.

Program funding moved from APPN:3400 to APPN:3010 effective in FY20

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies, studies and Advisory and Administrative Services (A&AS).



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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 1	<b>P-1 Line Item Number / Title:</b> 000071 / Aircraft Replacement Support Equip	<b>Aggregated Items Title:</b> Nondestructive Inspection (NDI) Joint Oil Analysis Program (JOAP)

PMA OTHER CONTRACTOR SERVICES: This funding includes provisions for government contract oversight, technical expertise, and program office support associated with the Nondestructive Inspection & Joint Oil Analysis Program.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support

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

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

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	1.403	1.683	1.651	-	1.651	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	1.403	1.683	1.651	-	1.651	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>1.403</b>	<b>1.683</b>	<b>1.651</b>	-	<b>1.651</b>	-	-	-	-	-	-

*(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:**

Interim Contractor Support (ICS) provides maintenance and repair capability for depot-level repairs to meet Air Force Global Strike Command (AFGSC) operational requirements for the B-2 weapon system. The ICS program is an on-condition and limited overhaul repair capability repairing Line Replaceable Units (LRUs) and Shop Replaceable Units (SRUs) associated with legacy airframe structures, hydro-mechanical components and avionics components until permanent depot repair capability is established. ICS also provides travel support and interim repair to new or modified components stemming from B-2 aircraft modification programs until a permanent source of repair has been achieved either organically or through Contractor Depot Maintenance (CDM).

This exhibit covers ICS for new B-2 modifications. ICS for legacy components and WSSC funding is covered in Line Item 74, B002B0 B-2a.

**Justification:**

ICS will continue to provide interim maintenance and repair capability to B-2 LRUs/SRUs as well as new aircraft modification components until either an organic repair capability or contractor repair capability is established.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support	<b>P-1 Line Item Number / Title:</b> B002B0 / B-2B
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	28.900	37.310	38.811	-	38.811	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	28.900	37.310	38.811	-	38.811	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>28.900</b>	<b>37.310</b>	<b>38.811</b>	-	<b>38.811</b>	-	-	-	-	-	-

*(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:**

Interim Contractor Support (ICS) provides maintenance, and repair capability for depot-level repairs to meet Air Force Global Strike Command (AFGSC) operational requirements for the B-2 weapon system. The ICS program is an on-condition and limited overhaul repair capability repairing Line Replaceable Units (LRUs) and Shop Replaceable Units (SRUs) associated with airframe structures, hydro-mechanical components, and avionics components until permanent depot repair capability is established. ICS also provides travel support and interim repair to alternate mission equipment and new or modified components stemming from B-2 aircraft modification programs until a permanent source of repair has been achieved either organically or through Contractor Depot Maintenance (CDM).

Weapon System Support Center (WSSC) provides procurement, replacement, upgrade, test, integration, and shipment of B-2 peculiar support equipment (PSE) and Special Test Equipment (STE) capabilities, associated sub-components, and software development equipment and architecture required for B-2 software development and sustainment activities in support of of AFGSC operational support facilities, Aircraft Program Depot Maintenance, and Test Ranges. The B-2 WSSC is a one of a kind facility that develops, maintains, sustains, integrates, tests and certifies the B-2 Spirit Software. The B-2 WSSC combines Flight Controls, Radar, Weapons, Navigation, Traffic Control, Communications, Displays, Flight Management, External interfaces, and Defensive Management functionality in a test environment to conduct component, subsystem, and end to end software test before deployment to the test aircraft and/or the operational fleet.

Other Post Production Support (PPS) provides funds to procurement, replacement, upgrade, test, integration and shipment of other PSE and STE capabilities, associated support systems and subcomponents, and software development systems and architecture used in B-2 associated laboratories, sustainment depot maintenance activities, test ranges, and AFGSC operational support facilities.

This exhibit Line Item, covers ICS for legacy components as well as WSSC support. ICS for new B-2 modifications is covered in Line Item 73 under B-2A.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support **P-1 Line Item Number / Title:** B002B0 / B-2B

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

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	B-2B				- / -	- / 28.900	- / 37.310	- / 38.811	- / -	- / 38.811
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 28.900</b>	<b>- / 37.310</b>	<b>- / 38.811</b>	<b>- / -</b>	<b>- / 38.811</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**

ICS will continue to provide interim maintenance and repair capability to legacy B-2 LRUs/SRUs as well as new aircraft modification components and alternate mission equipment until either an organic repair capability or contractor repair capability is established.

Post Production Support funds are used to acquire, replace, upgrade, integrate, and test obsolete B-2 Peculiar Support Equipment and Special Test Equipment capabilities, associated subcomponents, and software development systems and architecture required to support software development and sustainment activities, and other B-2 testing at the WSSC, as well as Program Depot Maintenance, Test Range, and AFGSC support facilities.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 2	<b>P-1 Line Item Number / Title:</b> B002B0 / B-2B	<b>Aggregated Items Title:</b> B-2B
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Legacy ICS; Program Code ap5000	A		-	-	-	-	-	16.144	-	-	24.345	-	-	25.839	-	-	-	-	-	25.839
WSSC; Program Code bem000	A		-	-	-	-	-	12.756	-	-	12.965	-	-	12.972	-	-	-	-	-	12.972
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>28.900</b>	-	-	<b>37.310</b>	-	-	<b>38.811</b>	-	-	-	-	-	<b>38.811</b>
<b>Total</b>			-	-	-	-	-	<b>28.900</b>	-	-	<b>37.310</b>	-	-	<b>38.811</b>	-	-	-	-	-	<b>38.811</b>

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

**Remarks:**  
Line Item 74 covers ICS for legacy B-2 components as well as WSSC support. ICS for new B-2 modifications is covered in Line Item 73.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support

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

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

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	2.341	1.034	5.602	-	5.602	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	2.341	1.034	5.602	-	5.602	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>2.341</b>	<b>1.034</b>	<b>5.602</b>	-	<b>5.602</b>	-	-	-	-	-	-

*(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-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 + 2 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 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 (DMS) 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 DMS components, bridge buys of DMS 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 Diminishing Manufacturing and Material Shortage (DMSMS) issues. DMS efforts to 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. Implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative.

This modification is planned to be done in conjunction with Programmed Depot Maintenance (PDM). In addition, training devices will be upgraded to include CONNECT functionality to meet user training requirements.

Post Production Support funds Interim Contract Support (ICS) until the depot is established for CONNECT. Diminishing Manufacturing Sources (DMS) 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 DMS components, bridge buys of DMS components until NRE can be completed or Life of Type buys, whichever is most appropriate. Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues. DMS efforts to 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. Implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0101113F.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support		<b>P-1 Line Item Number / Title:</b> B05200 / B-52
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0101113F
<b>Line Item MDAP/MAIS Code:</b> N/A		

Funds may be used for emerging DMS, DMSMS, and Interim Contract Support that is required.

Funds may be used to address emerging and short notice DMS and DMSMS issues. Funds may be used to resolve emerging safety of flight and DMS 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 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support  
**P-1 Line Item Number / Title:** B05200 / B-52

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

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	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	B-52				- / -	- / 2.341	- / 1.034	- / 5.602	- / -	- / 5.602
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 2.341	- / 1.034	- / 5.602	- / -	- / 5.602

\*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**

Post Production Support funds Interim Contract Support (ICS), which is required until the depot is established for CONECT (4QFY23).

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 07 / 2 **P-1 Line Item Number / Title:** B05200 / B-52 **Aggregated Items Title:** B-52

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
B-52 RADAR MODERNIZATION ICS	A		-	-	-	-	-	-	-	0.098	-	-	-	-	-	-	-	-	-	
B-52 CONECT ICS	A		-	-	-	-	-	2.341	-	-	0.936	-	-	5.602	-	-	-	-	-	5.602
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>2.341</b>	-	-	<b>1.034</b>	-	-	<b>5.602</b>	-	-	-	-	-	<b>5.602</b>
<b>Total</b>			-	-	-	-	-	<b>2.341</b>	-	-	<b>1.034</b>	-	-	<b>5.602</b>	-	-	-	-	-	<b>5.602</b>

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

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support

**P-1 Line Item Number / Title:**  
C01700 / C-17A

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0401130F, 0401897F

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	132.634	0.000	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	132.634	0.000	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>132.634</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>	-	-	-	-	-	-

*(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:**

1.) The Engine Depot Stock & Preservation Kit buy provides investment-funded engine depot replenishment spares to support depot operations during the transition from the Maintenance Service Rate Plan (MSRP)/Globemaster Integrated Sustainment Program (GISP) overhaul construct to the Engine Sustainment Services (ESS)/GISP overhaul construct. This follows a Secretary of the Air Force (Sec AF) directive to procure engine sustainment outside of the GISP Contractor Logistics Support (CLS) contract.

2.) Purchase of Peculiar and Common Support Equipment for the C-17 (PSE and CSE). CSE is comprised of support equipment used by the C-17 and other programs, while PSE is unique to the C-17. Both are required to effectively operate the Organizational and Intermediate (O&I) levels of aircraft maintenance at Main Operating Bases (MOBs), Avionics Regional Maintenance Centers (RMCs), Engine RMCs, Enroute locations, Backshop activities, plus requirements in support of the Boeing Analytical Condition Inspection (ACI) and WR (Warner Robins)-ACI Global Reach Improvement Program (GRIP) contracts.

3.) The Post Production Product Improvement (PPPI) program funds Materiel Improvement Program (MIP) projects. MIP projects correct Deficiency Report (DR) issues that were discovered during the aircraft production phase. There have been over 275 projects incorporated into production aircraft. About 35 projects remain to be retrofitted to post production aircraft to bring them up to production aircraft configuration. The projects are worked in conjunction with aircraft heavy maintenance (depot) cycle every 6 years.

4.) C-17 Weapon System Trainer (WST)- The purpose of this effort is to procure and install two (2)Weapon System Trainers (WST)s. The WSTs are simulators which support C-17 continuation training, in-unit upgrades, in-unit requalification, initial and refresher maintenance engine run qualifications, and new full spectrum readiness requirements to include chemical, biological, nuclear, and radiological training and mission employment scenario training. The effort also includes site preparation and activation of C-17 training systems sites.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. Funding for this exhibit is contained in PE 0401130F and 0401897F.

**Justification:**

No FY 2022 funding requested.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support  
**P-1 Line Item Number / Title:** DARP01 / RC-135

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305207F

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	170.075	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	170.075	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>170.075</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	-	-	-	-	-

*(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:**

An FY20 Congressional add allocated \$170.075M for the replacement of mission and training systems destroyed by the March 2019 flood at Offutt AFB, NE. Funding for this exhibit is contained in PE 0305207F.

**Justification:**

FY20 Congressional adds replaced equipment destroyed by the flooding at Offutt AFB. Replacing mission and support equipment is critical to ensuring the RC-135 is available to meet operational demands around the world. No Budget Year funding requested.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support

**P-1 Line Item Number / Title:**  
 F01500 / F-15

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

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	2.589	2.632	2.324	-	2.324	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	2.589	2.632	2.324	-	2.324	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>2.589</b>	<b>2.632</b>	<b>2.324</b>	-	<b>2.324</b>	-	-	-	-	-	-

*(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-15C/D Eagle is a highly maneuverable all-weather air superiority fighter. The F-15E Strike Eagle retains the basic air-to-air capability of the F-15C/D Eagle, but adds a weapon systems operator (WSO), rear cockpit, conformal fuel tanks and advanced systems for all-weather, day/night, all-altitude, deep penetration air-to-surface attack.

F-15E Integrated Aircrew Trainers (IATs) funded in PE 0207134F, supports the procurement of additional IATs in order to better implement formal syllabus training, and meet HAF intent by preparing for 20% increase in FTU production IAW ACC/A3T memo dated 29 Jun 2016. Future training plans include moving all Computer Based Training (CBTs) from desktop PCs to the IATs for increased fidelity and reduced Subject Matter Expert (SME) hours when teaching basic avionics use in IATs and Mission Training Center (MTC) events. Allows additional time to concentrate on systems integration and crew coordination, further supporting HAF intent. \$4.959M P3A in BP11 for IATs was created for this work; funding erroneously loaded in BP11

The program continues post-production support of the F-15C/D and F-15E Electronic Systems Test Set (ESTS) and post production support for the F-15 tooling storage.

Provides continued support of post production tooling storage at Granite City, IL. This equipment is used for the manufacture, test, support, or repair of the F-15 aircraft and/or its associated system components. The retention of Special Tooling/Special Test Equipment (ST/STE) is based on past usage history, current spare/repair parts contracts, and projections for future requirements.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency response, and providing military support to civil authorities.

No Research Development Test and Evaluation funding is associated with this effort.

Funds may be used to address Diminishing manufacturing Sources (DMS) efforts to 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. DMSMS costs are included in Group B NRE; SE/PM costs are include in the Group B recurring; and Depot Costs are included in the Support Equipment.

The FY2022 funding request was reduced by \$.315 million to account for the availability of prior year execution balances

**Justification:**

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support		<b>P-1 Line Item Number / Title:</b> F01500 / F-15
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A

**Line Item MDAP/MAIS Code:** N/A

IATs Funding provides continued support of the Electronic Systems Test Set (ESTS. Grounding of aircraft would result without this repair support.

Tooling is loaned/leased to support manufacturing of spares, as well as to support the execution of modification programs, life extension activities, and sustainment efforts.

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support	<b>P-1 Line Item Number / Title:</b> F0160P / F-16
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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: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	11.402	14.163	10.456	-	10.456	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	11.402	14.163	10.456	-	10.456	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>11.402</b>	<b>14.163</b>	<b>10.456</b>	-	<b>10.456</b>	-	-	-	-	-	-

*(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:**

Provides funding for F-16 support equipment, facilities support, interim contractor support, production tooling storage management, PMA costs and production line shutdown activities for F-16 aircraft.

Funding for this exhibit is budgeted in PE 0207133F

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support

**P-1 Line Item Number / Title:**  
 F0160P / F-16

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

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	F-16				- / -	- / 11.402	- / 14.163	- / 10.456	- / -	- / 10.456
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 11.402</b>	<b>- / 14.163</b>	<b>- / 10.456</b>	<b>- / -</b>	<b>- / 10.456</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**

This appropriation is for the continuation of prime contractor post production support, procurement of deferred peculiar ground support equipment, peculiar training equipment, mission support, interim contract support for F-16 Modification programs: Active Electronically Scanned Array (AESA), Multi Information Distribution System-Joint Tactical Radio System (MIDS-JTRS), Digital Radar Warning Receiver (DRWR), Modular Mission Computer/Programmable Display Generator (MMC/PDG), Comm Suite Upgrade, AGCAS, and activities associated with F-16 Production Line Shutdown.

Funding for the Production Tooling Storage Management contracts is essential to the F-16 Program as it requires specialized engineering services to ensure continued fleet support capability during, and beyond production lines. The USG stores tooling identified as required to be re-utilized to manufacture spares, support aircraft modifications, or other purposes. It would require millions of dollars to re-manufacture these tools and the delivery lead-time of the required tool/part would take several years to reproduce. The requirement is annual funding to maintain the Electronic Tool Inventory Management System (eTIMS) in cooperation with the Lexes Inc. and Lockheed Martin Aeronautics Inc, as well as the actual tear-down, shipping and storage of unique aircraft manufacturing equipment.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force** **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 07 / 2 **P-1 Line Item Number / Title:** F0160P / F-16 **Aggregated Items Title:** F-16

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Production Tooling Storage Management	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AESA	A		-	-	-	-	-	4.167	-	-	6.509	-	-	2.846	-	-	-	-	-	2.846
Mode 5	A		-	-	-	-	-	0.900	-	-	-	-	-	-	-	-	-	-	-	-
Avionics PGSE	A		-	-	-	-	-	5.735	-	-	5.161	-	-	4.553	-	-	-	-	-	4.553
AGCAS	A		-	-	-	-	-	-	-	-	-	-	-	0.597	-	-	-	-	-	0.597
Digital Radar Warning Receiver	A		-	-	-	-	-	-	-	-	1.243	-	-	1.234	-	-	-	-	-	1.234
Production Line Shutdown	A		-	-	-	-	-	0.600	-	-	0.444	-	-	0.485	-	-	-	-	-	0.485
MMC/PDG	A		-	-	-	-	-	-	-	-	0.679	-	-	0.382	-	-	-	-	-	0.382
Comm Suite Upgrade	A		-	-	-	-	-	-	-	-	0.127	-	-	0.359	-	-	-	-	-	0.359
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>11.402</b>	-	-	<b>14.163</b>	-	-	<b>10.456</b>	-	-	-	-	-	<b>10.456</b>
<b>Total</b>			-	-	-	-	-	<b>11.402</b>	-	-	<b>14.163</b>	-	-	<b>10.456</b>	-	-	-	-	-	<b>10.456</b>

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

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support  
**P-1 Line Item Number / Title:** OTHACF / Other Aircraft

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207701F

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	4.595	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	4.595	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>4.595</b>	<b>0.000</b>	-	<b>0.000</b>	-	-	-	-	-	-

*(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 Virtual Test and Training Center (VTTC) program delivers a virtual and constructive battlespace to include simulators, communications, and network infrastructure. The VTTC battlespace is a secure synthetic environment of interconnected systems supporting events and exercises. It provides high-end advanced training and tactics capabilities. One of the key components of the VTTC objective is the Man-in-the-Loop (MITL) stations, which will provide a manned adversary to train our warfighters.

Funding for this exhibit contained in PE 0207701F.

**Justification:**

No FY 2022 funding requested.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support	<b>P-1 Line Item Number / Title:</b> RQ4DIS / RQ-4 Post Production Charges
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305220F	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** 252

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	47.246	1.750	24.592	-	24.592	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	47.246	1.750	24.592	-	24.592	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>47.246</b>	<b>1.750</b>	<b>24.592</b>	-	<b>24.592</b>	-	-	-	-	-	-

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	3.300	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

USAF plans to begin divestment of the Block 20 aircraft in FY21 and the 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.

RQ-4 post production 3010 Budget Program (BP) 13 funding supports sensor procurement and related activities, the procurement and fielding of the Ground Segment Modernization Program (GSMP), Other Government Costs (OGCs), mission support, and technology insertion activities.

Ground Segment Modernization Program (GSMP) supports production and fielding of a modernized Ground Segment in support of the life cycle. The GSMP resolves fleet grounding Diminishing Manufacturing Sources (DMS) and obsolescence issues associated with legacy ground segment equipment and provides critical warfighter capabilities such as building-based multi-aircraft control. It will also enhance interoperability and data dissemination and provide increased cybersecurity measure. GSMP integrates previous modifications and improvements to the Global Hawk weapon system and will employ the USAF Unmanned Aerial System (UAS) Command and Control Initiative (UCI) and the DoD's Unmanned Control Segment standards (UCS), using a service-oriented open architecture approach.

Funds will support Global Hawk costs relating to contract closeout, mission support, OGCs, and production closeout costs.

Funding for this exhibit is contained in PE 0305220F. The flyaway unit cost is not included on P-40 exhibit because there are multiple P-5 Cost Analysis exhibits. Funding may be used to address DMS issues for which there are not sufficient Government spares and/or the ability to repair organically or commercially is not viable.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support  
**P-1 Line Item Number / Title:** RQ4DIS / RQ-4 Post Production Charges

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0305220F **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** 252

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	GSMP		B		- / -	- / 1.222	- / -	- / 18.877	- / -	- / 18.877
P-5	RQ-4 Post Production Charges		B		- / -	- / 9.076	- / 1.750	- / 5.715	- / -	- / 5.715
P-5	Sensors		B		- / -	- / 36.948	- / -	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 47.246	- / 1.750	- / 24.592	- / -	- / 24.592

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

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

**Justification:**  
 FY22 RQ-4 GSMP funding will be utilized for site surveys and any other related costs necessary to begin GSMP production.  
  
 FY22 RQ-4 post-production funds may also be used for contract closeout, sustaining engineering ramp down, mission support, production closeout costs, DMS resolution, Other Government Costs, and other related costs.

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<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 2	<b>P-1 Line Item Number / Title:</b> RQ4DIS / RQ-4 Post Production Charges	<b>Item Number / Title [DODIC]:</b> GSMP

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	1.222	-	18.877	-	18.877
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	1.222	-	18.877	-	18.877
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>1.222</b>	-	<b>18.877</b>	-	<b>18.877</b>

*(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)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - GSMP Cost																		
Recurring Cost																		
Ground Segment Units	-	-	-	-	-	-	-	-	-	-	-	15.547	-	-	-	-	-	15.547
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	15.547	-	-	-	-	-	15.547
<i>Subtotal: Hardware - GSMP Cost</i>	-	-	-	-	-	-	-	-	-	-	-	15.547	-	-	-	-	-	15.547
Support - GSMP Cost																		
Trainer	-	-	-	-	-	1.222	-	-	-	-	-	3.330	-	-	-	-	-	3.330
<i>Subtotal: Support - GSMP Cost</i>	-	-	-	-	-	1.222	-	-	-	-	-	3.330	-	-	-	-	-	3.330
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>1.222</b>	-	-	-	-	-	<b>18.877</b>	-	-	-	-	-	<b>18.877</b>

**Remarks:**

This project supports production and fielding of a modernized Ground Segment in support of the life cycle use of commercially available sub-systems. The Ground Segment Modernization Program (GSMP) resolves fleet grounding Diminishing Manufacturing Sources (DMS) and obsolescence issues associated with legacy ground segment equipment and provides critical warfighter capabilities such as building-based multi-aircraft control. It will also enhance interoperability and data dissemination and provide increased cybersecurity measures. GSMP integrates previous modifications and improvements to the Global Hawk weapon system and will employ the USAF Unmanned Aerial System (UAS) Command and Control Initiative (UCI) and the DoD's Unmanned Control Segment standards (UCS), using a service-oriented open architecture approach.

FY22 funds within this exhibit will be utilized for the procurement of trainers in support of GSMP, ICS, and other related costs necessary to begin GSMP production.

Projected DT completion: Q1 2022

Projected OT Report completion: Q1 2023

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<b>Exhibit P-5, Cost Analysis:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 2	<b>P-1 Line Item Number / Title:</b> RQ4DIS / RQ-4 Post Production Charges	<b>Item Number / Title [DODIC]:</b> GSMP
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>	

Funding for this exhibit contained in PE 0305220F.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2022 Air Force</b>		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 2	<b>P-1 Line Item Number / Title:</b> RQ4DIS / RQ-4 Post Production Charges	<b>Item Number / Title [DODIC]:</b> RQ-4 Post Production Charges

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B			<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	9.076	1.750	5.715	-	5.715
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	9.076	1.750	5.715	-	5.715
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>9.076</b>	<b>1.750</b>	<b>5.715</b>	-	<b>5.715</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares ( <i>\$ in Millions</i> )	-	-	3.300	0.000	-	0.000
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support - RQ-4 Post Production Support Cost																		
Other Government Costs	-	-	-	-	-	-	-	-	0.750	-	-	5.715	-	-	-	-	-	5.715
PMA Contractor Services	-	-	-	-	-	9.076	-	-	1.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - RQ-4 Post Production Support Cost</i>	-	-	-	-	-	<b>9.076</b>	-	-	<b>1.750</b>	-	-	<b>5.715</b>	-	-	-	-	-	<b>5.715</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>9.076</b>	-	-	<b>1.750</b>	-	-	<b>5.715</b>	-	-	-	-	-	<b>5.715</b>

**Remarks:**  
FY22 RQ-4 post-production funds may be used for mission support, production closeout costs, DMS resolution, Other Government Costs, and other related costs.

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**Exhibit P-5, Cost Analysis: PB 2022 Air Force** **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 2	<b>P-1 Line Item Number / Title:</b> RQ4DIS / RQ-4 Post Production Charges	<b>Item Number / Title [DODIC]:</b> Sensors
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**ID Code** (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	36.948	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	36.948	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>36.948</b>	-	-	-	-

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support - Sensors Cost																		
Sensor Calibration/ Installation	-	-	-	-	-	36.948	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Sensors Cost</i>	-	-	-	-	-	<b>36.948</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>36.948</b>	-	-	-	-	-	-	-	-	-	-	-	-

**Remarks:**

Requirement source: AF-1067

Funding for this exhibit contained in PE 0305220F.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 3: Industrial Preparedness

**P-1 Line Item Number / Title:**  
 000073 / Industrial Responsiveness

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

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	17.705	18.215	18.110	-	18.110	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	17.705	18.215	18.110	-	18.110	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>17.705</b>	<b>18.215</b>	<b>18.110</b>	-	<b>18.110</b>	-	-	-	-	-	-

*(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:**

1. The Air Force Industrial Preparedness program element combines the resources of several appropriations (Aircraft Procurement, Missile Procurement, and Operation and Maintenance) to create a comprehensive program that aids in ensuring the defense industry can supply reliable, safe, affordable systems to operational commanders. The Aircraft Procurement part of Industrial Preparedness support 1) management and upkeep of government-owned industrial plants; 2) management of industrial base assessments; 3) environmental compliance and pollution prevention at government-owned industrial plants.

2. Four basic activities are funded in this appropriation: Industrial Facilities (3000), Industrial Base Assessments (6000), Environmental Compliance (7000), and Pollution Prevention (6044).

Industrial Facility Capital Type Rehabilitation cost element (MPC 3000) provides for repair and expansion, major capital rehabilitation, construction, demolition, equipment, real property directives (appraisals, easements, physical condition reports, etc.) and energy conservation to ensure government-owned, contractor-operated industrial facilities remain operationally safe, suitable and effective to meet the nation's weapon system industry needs. These plants are the backbone of defense weapon system assembly and maintenance for the B-2, U-2, F-16, P-3 C-130, C-5B, RQ-4 Global Hawk, F-35 Joint Strike Fighter & classified programs and it is the intent of Congress (10USC 2535) to provide an essential nucleus of government owned industrial plants.

Industrial Base Assessment cost element (MPC 6000) provides for the identification, analysis and assessment of industrial base concerns dealing with aircraft research and development, production, and sustainment. These assessments provide timely and accurate industrial base information to support Air Force decisions on 1) aircraft weapon system acquisition risks; 2) budget allocation investments; 3) weapon system sustainment and logistics support; and 4) defense industry mergers, acquisitions, and divestitures. Supports Joint & Service industrial base planning on shared commodities, technologies, and facilities.

Environmental Compliance cost element (MPC 7000) provides for the efforts needed to maintain environmental compliance with federal, state, and local regulatory requirements regarding operation of the government-owned contractor-operated industrial facilities. The environmental compliance program includes efforts to enhance compliance through pollution prevention reducing controlled emissions and use of hazardous materials. Environmentally compliant industrial facilities enable production to continue and grow to meet our nation's weapon system needs and avoid the risk of cleanup costs and penalties from Federal, State and Local regulators.

Pollution Prevention (P2) cost element (MPC 6044) at AF government-owned, contractor-operated (GOCO) facilities implements the Pollution Prevention program that reduces emissions to air, land, and water, reduces AF cost as facility owner. Implements Environmental Safety and Occupational Health (ESOH) risk management that reduces weapon systems' risk impacts and life cycle costs. Includes qualification of improved processes, materials and equipment; energy conservation initiatives; P2 opportunity assessments; and recovery/recycling to minimize hazardous waste. Program results can be shared to benefit

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 3: Industrial Preparedness		<b>P-1 Line Item Number / Title:</b> 000073 / Industrial Responsiveness
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
others. Activities support AF goals under P2 Act, EO 13834, Efficient Fed Ops, AF/CV and SAF/IE Policy on P2 and Waste Elimination, USD (AT&L) hexavalent chromium reduction policy, and Resource Conservation and Recovery Act. Prior to FY15, funds provided through PE 078054F. FY19 moved from BP19 to BP14.		



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

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 3: Industrial Preparedness **P-1 Line Item Number / Title:** 000073 / Industrial Responsiveness

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

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Industrial Responsiveness				- / -	- / 17.705	- / 18.215	- / 18.110	- / -	- / 18.110
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 17.705</b>	<b>- / 18.215</b>	<b>- / 18.110</b>	<b>- / -</b>	<b>- / 18.110</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**  
 FY2022 requirements are for MPC 3000 Capital Type Rehabilitation, MPC 6000 Industrial Base Assessment, MPC 7000 Environmental Compliance and MPC 6044 Pollution Prevention. Funding for this exhibit is contained in PE 0708011F.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force** **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 07 / 3 **P-1 Line Item Number / Title:** 000073 / Industrial Responsiveness **Aggregated Items Title:** Industrial Responsiveness

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Pollution Prevention (6044)	A		-	-	-	-	-	2.461	-	-	2.463	-	-	2.410	-	-	-	-	-	2.410
Capital Type Rehabilitation (MPC 3000)	A		-	-	-	-	-	7.105	-	-	7.346	-	-	7.405	-	-	-	-	-	7.405
Industrial Base Assessment (MPC 6000)	A		-	-	-	-	-	1.028	-	-	1.046	-	-	1.020	-	-	-	-	-	1.020
Environmental Compliance (MPC 7000)	A		-	-	-	-	-	7.111	-	-	7.360	-	-	7.275	-	-	-	-	-	7.275
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>17.705</b>	-	-	<b>18.215</b>	-	-	<b>18.110</b>	-	-	-	-	-	<b>18.110</b>
<b>Total</b>			-	-	-	-	-	<b>17.705</b>	-	-	<b>18.215</b>	-	-	<b>18.110</b>	-	-	-	-	-	<b>18.110</b>

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

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 4: War Consumables	<b>P-1 Line Item Number / Title:</b> 000074 / War Consumables
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207040F, 0305116F
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	32.102	32.046	35.866	-	35.866	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	32.102	32.046	35.866	-	35.866	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>32.102</b>	<b>32.046</b>	<b>35.866</b>	-	<b>35.866</b>	-	-	-	-	-	-

*(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 ALE-70 Towed Decoy is a countermeasures dispenser system designed to fit into the F-35 Joint Strike Fighter (JSF) aircraft. The ALE-70 provides aircraft self-protection against radar guided missiles. Funds procure all system components: decoys, canisters, and explosive cartridges to deploy the decoys.

Items Less Than \$5M: The Rocket-Assisted Take-Off (RATO) motor is a solid propellant rocket used to provide launching thrust to the Air Force Subscale Aerial Target (AFSAT) drone (BQM-167). Support items include reefing line cutters, igniters, and initiators. The RATO and the associated support items are single use items.

Funding for this exhibit contained in Program Elements PE 0207442F, 0305116F, and 0207040F.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 4: War Consumables

**P-1 Line Item Number / Title:**  
 000074 / War Consumables

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207040F, 0305116F

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	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	ITEMS LESS THAN \$5,000,000				- / -	- / 4.012	- / 4.757	- / 4.759	- / -	- / 4.759
P-40a	Multi-Platform Electronic Warfare				- / -	- / 28.090	- / 27.289	- / 31.107	- / -	- / 31.107
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 32.102</b>	<b>- / 32.046</b>	<b>- / 35.866</b>	<b>- / -</b>	<b>- / 35.866</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**  
 ALE-70 Towed Decoy: FY22 funds procure all system components: decoys, canisters, and explosive cartridges to deploy the decoys

Items Less Than \$5M: FY22 funding required to procure RATOs, and H1.4 Cutters.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 4	<b>P-1 Line Item Number / Title:</b> 000074 / War Consumables	<b>Aggregated Items Title:</b> ITEMS LESS THAN \$5,000,000
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
RATO	A		-	-	-	0.032	118	3.782	0.038	118	4.527	0.037	121	4.505	-	-	-	0.037	121	4.505
H1.4 Cutter	A		-	-	-	0.000	1,832	0.230	0.000	1,832	0.230	0.000	1,832	0.254	-	-	-	0.000	1,832	0.254
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>4.012</b>	-	-	<b>4.757</b>	-	-	<b>4.759</b>	-	-	-	-	-	<b>4.759</b>
<b>Total</b>			-	-	-	-	-	<b>4.012</b>	-	-	<b>4.757</b>	-	-	<b>4.759</b>	-	-	-	-	-	<b>4.759</b>

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

**Remarks:**

RATO procurement costs account for First Article Testing of new assets, transportation costs, inert motors for training, and travel costs

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 4	<b>P-1 Line Item Number / Title:</b> 000074 / War Consumables	<b>Aggregated Items Title:</b> Multi-Platform Electronic Warfare
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware</b>																				
ALE-70 Towed Decoy	A		-	-	-	0.058	484	28.090	0.056	484	27.289	0.064	484	31.107	-	-	-	0.064	484	31.107
<b>Subtotal: Hardware</b>			-	-	-	-	-	<b>28.090</b>	-	-	<b>27.289</b>	-	-	<b>31.107</b>	-	-	-	-	-	<b>31.107</b>
<b>Total</b>			-	-	-	-	-	<b>28.090</b>	-	-	<b>27.289</b>	-	-	<b>31.107</b>	-	-	-	-	-	<b>31.107</b>

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

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 5: Other Production Charges

**P-1 Line Item Number / Title:**  
 000075 / Other Production Charges

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207439F

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	1,173.314	1,372.337	979.388	-	979.388	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	1,173.314	1,372.337	979.388	-	979.388	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>1,173.314</b>	<b>1,372.337</b>	<b>979.388</b>	-	<b>979.388</b>	-	-	-	-	-	-

*(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 Miscellaneous Production Charges program provides for items which are not directly related to other procurement line items in this appropriation, cannot be reasonably allocated and charged to other procurement line items in this appropriation, can be managed as separate end items, may contain certain classified programs, and may be alternate mission equipment, not considered a modification, for out of production systems.

The major efforts supported in FY 2022 include funding for Electronic Attack pods, towed decoys and associated test equipment; B-2, F-15E, F-15 EPAWSS and F-22 Depot Core Activation, Aerial Targets, Maintenance Support Vehicles or Equipment and the required U.S. contribution for projects defined by the NATO Airborne Early Warning and Control (NAEWC) Board of Directors and approved by the U.S. government.

The program has associated Research Development Test and Evaluation funding in PEs 0101113F, 0101127F, 0207040F, 0207171F, 0207134F, 0207138F, 0205219F, 0207249F, 0305116F, 0305220F, 0401119F, 0604735F, 0701212F and 1203001F.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 5: Other Production Charges

**P-1 Line Item Number / Title:**  
000075 / Other Production Charges

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207439F

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	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	B-2				- / -	- / 0.000	- / 22.621	- / 17.636	- / -	- / 17.636
P-40a	C-5 Airlift Squadrons (IF)				- / -	- / 0.574	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	CTRE				- / -	- / 0.300	- / 3.495	- / 0.294	- / -	- / 0.294
P-40a	EW POD				- / -	- / 43.869	- / 31.331	- / 7.421	- / -	- / 7.421
P-40a	EWIR				- / -	- / 3.739	- / 3.800	- / 3.803	- / -	- / 3.803
P-40a	F-15 EPAWSS				- / -	- / 0.000	- / 15.058	- / 48.823	- / -	- / 48.823
P-40a	F-15A/B/C/D Squadrons				- / -	- / 2.500	- / 1.498	- / 1.468	- / -	- / 1.468
P-40a	F-15E Squadrons				- / -	- / 48.356	- / 97.256	- / 19.450	- / -	- / 19.450
P-40a	F-22A				- / -	- / 19.400	- / 151.512	- / 20.728	- / -	- / 20.728
P-40a	FBLOST				- / -	- / 1.700	- / 0.000	- / -	- / -	- / -
P-40a	Maintenance Support Vehicles or Equipment				- / -	- / 0.000	- / 0.000	- / 11.613	- / -	- / 11.613
P-40a	Classified Mods				- / -	- / 915.894	- / 956.431	- / 715.973	- / -	- / 715.973
P-40a	MQ-9				- / -	- / 22.107	- / 26.585	- / 26.596	- / -	- / 26.596
P-40a	PRECISION ATTACK SYSTEMS PROCUREMENT				- / -	- / 0.000	- / 0.000	- / 24.000	- / -	- / 24.000
P-40a	RQ-4 UAV				- / -	- / 0.070	- / 0.000	- / 10.788	- / -	- / 10.788
P-40a	Service Support to NATO AEWC Program				- / -	- / 97.000	- / 46.255	- / 54.345	- / -	- / 54.345
P-40a	Supply Depot Operations (Non-IF)				- / -	- / 1.291	- / -	- / -	- / -	- / -
P-40a	TRGT				- / -	- / 16.514	- / 16.495	- / 16.450	- / -	- / 16.450
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 1,173.314</b>	<b>- / 1,372.337</b>	<b>- / 979.388</b>	<b>- / -</b>	<b>- / 979.388</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**  
This program, Other Production Charges P-40A Category Uncategorized Item Bomber Armament Tester (BAT), is a new start.

The major efforts supported in FY 2022 include funding for Electronic Attack pods, towed decoys and associated test equipment; B-2, F-15E and F-22 Depot Core Activation; RQ-4, and Aerial Targets.



**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 07 / 5 **P-1 Line Item Number / Title:** 000075 / Other Production Charges **Aggregated Items Title:** B-2

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
B-2 Squadrons	A		-	-	-	-	-	0.000	-	-	22.621	-	-	17.636	-	-	-	-	-	17.636
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>22.621</b>	-	-	<b>17.636</b>	-	-	-	-	-	<b>17.636</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>22.621</b>	-	-	<b>17.636</b>	-	-	-	-	-	<b>17.636</b>

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

**Remarks:**

FY22 funds will be used to achieve B-2 Depot Activation and contractor Special Test Equipment (STE) modernization. Depot Activation is the program to transition legacy and B-2 modification components to organic depot repair from contract depot repair as directed by HQ AFMC via the Source of Repair Assignment (SORA) process. Depot Activation funding support all product support elements (such as technical data, support equipment, supply support, training and facilities) required to establish organic repair capability on B-2 avionics and mechanical components. The STE modernization effort modernizes, refurbishes and/or replaces obsolete Government Furnished Property (GFP) used by contractors to perform depot repairs on B-2 components. The existing STE used by contractors was built for the B-2 production contract and has become obsolete over the past 30 years. Also, the B-2 program did not provide STE to the contractor or establish an initial depot repair capability. This STE effort is in place to ensure depot repair capabilities exist at the assigned contractors.

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> C-5 Airlift Squadrons (IF)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
C-5	A		-	-	-	-	-	0.574	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.574</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>0.574</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>

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

**Remarks:**  
No funding requested for FY22.

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> CTRE
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Combat Training Range Equipment	A		-	-	-	-	-	0.300	-	-	3.495	-	-	0.294	-	-	-	-	-	0.294
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.300</b>	-	-	<b>3.495</b>	-	-	<b>0.294</b>	-	-	-	-	-	<b>0.294</b>
<b>Total</b>			-	-	-	-	-	<b>0.300</b>	-	-	<b>3.495</b>	-	-	<b>0.294</b>	-	-	-	-	-	<b>0.294</b>

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

**Remarks:**

FY22 funds required for the P5 Combat Training System (P5CTS) which provides instrumentation to train aircrews in air-to-air, air-to-ground, and ground-to-air combat under simulated combat conditions in any available airspace worldwide and eliminates the need to fly over highly instrumented ground ranges. The system is used on-aircraft instrumentation (the P5 pod), communication links, and a ground station to support range safety, training execution, and aircrew debriefings. The system is in sustainment, with an estimated lifecycle through 2030. Air Combat Command (ACC) has established a requirement for additional pods and related ground subsystem equipment to meet training requirements through that lifecycle.

Funds may be used to address production Diminishing Manufacturing Sources and Material Shortages (DMSMS) and obsolescence issues through studies, bridge buys, life of type buys, supplier parts replacement and qualification activities to preserve future production capabilities and capacities.

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> EW POD
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
EW POD	A		-	-	-	-	-	43.869	-	-	31.331	-	-	0.000	-	-	-	-	-	0.000
Spectrum Warfare Attack Capability (SWAC)	A		-	-	-	-	-	-	-	-	-	-	-	7.421	-	-	-	-	-	7.421
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>43.869</b>	-	-	<b>31.331</b>	-	-	<b>7.421</b>	-	-	-	-	-	<b>7.421</b>
<b>Total</b>			-	-	-	-	-	<b>43.869</b>	-	-	<b>31.331</b>	-	-	<b>7.421</b>	-	-	-	-	-	<b>7.421</b>

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

**Remarks:**  
 FY22 funding required for A-10 and F-16 Electronic Attack pods and associated test equipment. This equipment is used to counter adversary ground and airborne radar systems used to detect and target Air Force aircraft.  
 The Spectrum Warfare Attack Capability (SWAC) is not a new effort. This is to go after existing alternatives (i.e. Angry Kitten Pod) for the Electronic Warfare Pod Upgrade Program that meet the three capabilities: rapidly re-programmable, open system architecture, and Software defined functionality. The Angry Kitten Pod is a suitable pod alternative for the Electronic Warfare Pod Upgrade Program.  
 Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> EWIR
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>EWIR</b>																				
Electronic Warfare Integrated Reprogramming (EWIR)	A		-	-	-	-	-	3.739	-	-	3.800	-	-	3.803	-	-	-	-	-	3.803
<b>Subtotal: EWIR</b>			-	-	-	-	-	<b>3.739</b>	-	-	<b>3.800</b>	-	-	<b>3.803</b>	-	-	-	-	-	<b>3.803</b>
<b>Total</b>			-	-	-	-	-	<b>3.739</b>	-	-	<b>3.800</b>	-	-	<b>3.803</b>	-	-	-	-	-	<b>3.803</b>

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

**Remarks:**  
FY22 funding procures equipment and aircraft system components to provide critical reprogramming of Electronic Warfare (EW) systems for all Air Force and Foreign Military Sales customers.

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 07 / 5 **P-1 Line Item Number / Title:** 000075 / Other Production Charges **Aggregated Items Title:** F-15 EPAWSS

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>F-15 EPAWSS</b>																				
F-15 EPAWSS	A		-	-	-	-	-	0.000	-	-	15.058	-	-	48.823	-	-	-	-	-	48.823
<b>Subtotal: F-15 EPAWSS</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>15.058</b>	-	-	<b>48.823</b>	-	-	-	-	-	<b>48.823</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>15.058</b>	-	-	<b>48.823</b>	-	-	-	-	-	<b>48.823</b>

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

**Remarks:**

FY 2022 funding is required to comply with Title 10 USC Section 2464, Core Logistics Capabilities and Title 10 USC Section 2466, which mandate standup of an organic USG depot maintenance/repair capability No Later Than (NLT) Initial Operating Capability (IOC) + 4 years. Specifically, FY22 funds will enable the Depot Maintenance Activation Working Group (DMAWG)/Depot Maintenance Activation Team (MAPT) activities. The DMAWG/MAPT are performing a Depot Gap Analysis to determine what additional capability, facilities, infrastructure, equipment, technical data, and training are required to stand up the USG organic depot capability. Additionally, the Air Force will award a contract to develop comprehensive Technical Requirements Documents (TRDs) that identify how repairs will be performed on each EPAWSS component. Lack of funding will delay activation of the organic depot capability, increase the duration/cost of Interim Contractor Support (ICS), and put at-risk the program's ability to adhere to Title 10 mandates.

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> F-15A/B/C/D Squadrons
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Mode 5 Program Office Estimate	A		-	-	-	-	-	2.500	-	-	1.498	-	-	1.468	-	-	-	-	-	1.468
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>2.500</b>	-	-	<b>1.498</b>	-	-	<b>1.468</b>	-	-	-	-	-	<b>1.468</b>
<b>Total</b>			-	-	-	-	-	<b>2.500</b>	-	-	<b>1.498</b>	-	-	<b>1.468</b>	-	-	-	-	-	<b>1.468</b>

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

**Remarks:**

Funding for this exhibit is contained in PE 0207134F.

The F-15C is a single seat, twin engine, supersonic, all-weather, day/night, air-superiority fighter. Mode 5 is a secure Air-to-Air Interrogator/Identification Friend-or-Foe (AAI/IFF) system for identifying friendly aircraft. Mode 5 will provide vastly improved performance with a robust encryption scheme.

FY22 funding will be used to support depot stand-up/activation for F-15C Mode 5.

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> F-15E Squadrons
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
APG-82(V)1 Depot Standup Program Office Estimate	A		-	-	-	-	-	48.356	-	-	97.256	-	-	19.450	-	-	-	-	-	19.450
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>48.356</b>	-	-	<b>97.256</b>	-	-	<b>19.450</b>	-	-	-	-	-	<b>19.450</b>
<b>Total</b>			-	-	-	-	-	<b>48.356</b>	-	-	<b>97.256</b>	-	-	<b>19.450</b>	-	-	-	-	-	<b>19.450</b>

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

**Remarks:**  
Funding for this exhibit is contained in PE 0207134F.

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. F-15E Radar Modernization Program (RMP), designated the APG-82(V)1, replaces 217 legacy F-15E radars with an active electronically scanned array radar, using existing technology from other DOD platforms. It solves parts obsolescence problems and provides improved reliability and performance, including air-to-air and air-to-ground modes. It also provides for future growth.  
FY22 funding will be used to support depot stand-up/activation for the F-15E APG-82(V)1 radar, also known as the Radar Modernization Program (RMP).



**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> F-22A
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
F-22 A Squadrons	A		-	-	-	-	-	19.400	-	-	151.512	-	-	20.728	-	-	-	-	-	20.728
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>19.400</b>	-	-	<b>151.512</b>	-	-	<b>20.728</b>	-	-	-	-	-	<b>20.728</b>
<b>Total</b>			-	-	-	-	-	<b>19.400</b>	-	-	<b>151.512</b>	-	-	<b>20.728</b>	-	-	-	-	-	<b>20.728</b>

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

**Remarks:**

FY22 funding provides for out of production system items not directly related to other procurement line items. This funding also provides for depot activations, supporting the F-22's core determination and source of repair at the three Air Logistics Complexes (ALCs). Funding enables initial activation of depot repair capabilities (i.e. tools and equipment, facility modification, and training) for F-22 aircraft, as well as engine components, sub-assemblies, structures, and software.

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.

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> FBLOST
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Family of Advanced BLoS Terminals (FAB-T)	A		-	-	-	-	-	1.700	-	-	0.000	-	-	-	-	-	-	-	-	
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>1.700</b>	-	-	<b>0.000</b>	-	-	-	-	-	-	-	-	
<b>Total</b>			-	-	-	-	-	<b>1.700</b>	-	-	<b>0.000</b>	-	-	-	-	-	-	-	-	

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

**Remarks:**  
Family of Advanced Beyond Line of Sight Terminals (FAB-T) program replaces legacy Milstar terminals and will provide Extremely High Frequency (EHF), protected high data rate communication for nuclear and conventional forces to include Presidential and National Voice Conferencing (PNVC). Activities include Depot Activation, Stand-up, and ICS. No FY 2022 funding is requested.

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force															<b>Date:</b> May 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5					<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges										<b>Aggregated Items Title:</b> Maintenance Support Vehicles or Equipment				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Bomber Armament Tester (BAT)	A		-	-	-	-	-	0.000	-	-	0.000	-	-	11.613	-	-	-	-	-	11.613
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>11.613</b>	-	-	-	-	-	<b>11.613</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>11.613</b>	-	-	-	-	-	<b>11.613</b>

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

**Remarks:**

Bomber Armament Tester (BAT) is a nuclear certified common tester capable of testing on-aircraft Stores Management Systems and Line Replacement Units both on-and off-aircraft. The BAT System will test functionality of the Armament Mission Equipment (AME) that is required for B-2A, B-1B, and B-52H weapons delivery. FY22 funding will be used for core tester and Test Program Set (TPS) depot activation. Without this funding, the BAT program will be dependent on contract repair, increasing life cycle sustainment costs.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> Classified Mods
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Classified Programs	A		-	-	-	-	-	915.894	-	-	956.431	-	-	715.973	-	-	-	-	-	715.973
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>915.894</b>	-	-	<b>956.431</b>	-	-	<b>715.973</b>	-	-	-	-	-	<b>715.973</b>
<b>Total</b>			-	-	-	-	-	<b>915.894</b>	-	-	<b>956.431</b>	-	-	<b>715.973</b>	-	-	-	-	-	<b>715.973</b>

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

**Remarks:**  
This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> MQ-9
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
MQ-9	A		-	-	-	-	-	22.107	-	-	26.585	-	-	26.596	-	-	-	-	-	26.596
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>22.107</b>	-	-	<b>26.585</b>	-	-	<b>26.596</b>	-	-	-	-	-	<b>26.596</b>
<b>Total</b>			-	-	-	-	-	<b>22.107</b>	-	-	<b>26.585</b>	-	-	<b>26.596</b>	-	-	-	-	-	<b>26.596</b>

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

**Remarks:**

FY22 funding required for MQ-9 Reaper organic depot maintenance activation. Funds will be used to define, design, produce, deliver, install, checkout, and stand up organic depot maintenance activation capabilities for the MQ-9 Reaper. This includes, but is not limited to, logistics support analysis, depot level support equipment/tooling, depot level technical repair/test data, depot level training, depot level calibration requirements/tools, depot level computer resources, software/software source code, software documentation, and technical data rights needed to perform organic depot maintenance activation.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force															<b>Date:</b> May 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5							<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges							<b>Aggregated Items Title:</b> PRECISION ATTACK SYSTEMS PROCUREMENT					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Precision Attack Systems	A		-	-	-	-	-	0.000	-	-	0.000	-	-	24.000	-	-	-	-	-	24.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>24.000</b>	-	-	-	-	-	<b>24.000</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>24.000</b>	-	-	-	-	-	<b>24.000</b>

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

**Remarks:**

Advanced Targeting Pods (ATPs) provide long-range target acquisition and expanded weapon delivery envelopes for greater aircraft survivability. ATPs feature an infrared (IR) sensor, charged coupled device television (CCD-TV), laser designator, eye-safe laser, larger aperture, combat identification, laser spot tracker, infrared marker, and real-time video data link for connectivity with ground forces. 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, including suppression/destruction of enemy air defenses (SEAD/DEAD), precision air interdiction, close air support (CAS), non-traditional intelligence, surveillance and reconnaissance (NT-ISR), reconnaissance, and time-sensitive targeting.

FY22 funding supports the production, qualification and integration of ATPs to include all activities necessary for fielding. It includes, but is not limited to, Advanced Targeting Pod (ATP) procurements, OFP verification/qualification testing, modification and integration efforts, Interim Contractor Logistics (ICS) support, containers, site activations, technical data packages, depot standup and program management support. Laser Infrared Targeting and Navigating (LITENING) ATPs are currently used by the active duty, Air National Guard (ANG), and Air Force Reserve Command (AFRC).

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> RQ-4 UAV
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
RQ-4 UAV	A		-	-	-	-	-	0.070	-	-	-	-	-	10.788	-	-	-	-	-	10.788
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.070</b>	-	-	-	-	-	<b>10.788</b>	-	-	-	-	-	<b>10.788</b>
<b>Total</b>			-	-	-	-	-	<b>0.070</b>	-	-	<b>0.000</b>	-	-	<b>10.788</b>	-	-	-	-	-	<b>10.788</b>

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

**Remarks:**

FY22 funding required for Global Hawk RQ-4 depot activation, including the procurement of depot repair equipment, spares, depot level technical data, technical data rights, training, and other activities (i.e gap analysis) related to the prioritization and implementation of organic depot repair capability for compliance to 10 USC 2464 and the respective depot source of repair decisions.  
Funds support RQ-4 Depot Activation activities such as Depot Source of Repair, Life Cycle Sustainment Plan and Business Case Analysis for GSMP

Not a New Start.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2022 Air Force															<b>Date:</b> May 2021				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5							<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges								<b>Aggregated Items Title:</b> Service Support to NATO AEWC Program				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
NATO AWACS-Modernization Projects	A		-	-	-	-	-	97.000	-	-	46.255	-	-	54.345	-	-	-	-	-	54.345
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>97.000</b>	-	-	<b>46.255</b>	-	-	<b>54.345</b>	-	-	-	-	-	<b>54.345</b>
<b>Total</b>			-	-	-	-	-	<b>97.000</b>	-	-	<b>46.255</b>	-	-	<b>54.345</b>	-	-	-	-	-	<b>54.345</b>

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

**Remarks:**  
 FY22 funding required for NATO E-3 aircraft which provides air and maritime surveillance and air control for allied forces in the NATO area of operations. Fiscal Year Defense Plan funding provides the required U.S. contribution for projects defined by the NATO Airborne Early Warning and Control (NAEWC) Board of Directors and approved by the U.S. government. These projects include but are not limited to the Follow-on Upgrade Program (FUP I) and the Final Lifetime Extension Program (FLEP) modernization projects. The Follow-on Upgrade program satisfies international airspace mandates for upgraded Communications Navigation Surveillance/Air Traffic Management (CNS/ATM) as well as transponder upgrades for Mode 5 and Enhanced Mode S and includes planning activities for a FUP II effort. The Final Lifetime Extension Program efforts include but are not limited to projects that will enable the aircraft to maintain airspace access, ensure continued interoperability with the USAF AWACS, meet emerging military requirements and sustain the NATO fleet for the future needs of NATO to at least 2035.



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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> Supply Depot Operations (Non-IF)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Supply Depot Operations (Non-IF)	A		-	-	-	-	-	1.291	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>1.291</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	-	-	-	<b>1.291</b>	-	-	-	-	-	-	-	-	-	-	-	-

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

**Remarks:**  
FY22 funding supports Supply Depot Operations (Non-IF)

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 5	<b>P-1 Line Item Number / Title:</b> 000075 / Other Production Charges	<b>Aggregated Items Title:</b> TRGT
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Aerial Targets	A		-	-	-	-	-	16.514	-	-	16.495	-	-	16.450	-	-	-	-	-	16.450
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>16.514</b>	-	-	<b>16.495</b>	-	-	<b>16.450</b>	-	-	-	-	-	<b>16.450</b>
<b>Total</b>			-	-	-	-	-	<b>16.514</b>	-	-	<b>16.495</b>	-	-	<b>16.450</b>	-	-	-	-	-	<b>16.450</b>

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

**Remarks:**

Program procures ALQ-167 and/or DLQ-9 electronic attack pods for target drones including support equipment. Payloads emulate threat aircraft electronic countermeasures and jamming capabilities. FY22 funding will procure approximately 15 of each pod based on test requirements, expected usage in support of lethality testing and associated hardware procurement due to kill authorizations.

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

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 5: Other Production Charges	<b>P-1 Line Item Number / Title:</b> 11SPEC / Military Personnel Management
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.618	0.000	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.618	0.000	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.618</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>	-	-	-	-	-	-

*(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:**

Funding supports Spectrum relocation and sharing activities as provided in 47 U.S.C. Sec 928 - Spectrum Relocation Fund.

**Justification:**

No FY2021 funding requested.

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