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**Department of Defense
Fiscal Year (FY) 2021 Budget Estimates**

February 2020



Air Force

Justification Book Volume 1 of 2

Aircraft Procurement, Air Force

Vol-1

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Air Force • Budget Estimates FY 2021 • Procurement

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Appropriation Language Fiscal Year (FY) 2021 President's Budget Aircraft Procurement, Air Force

For construction, procurement, and modification of aircraft and equipment, including armor and armament, specialized ground handling equipment, and training devices, spare parts, and accessories therefor; specialized equipment; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents, transportation of things, and overseas contingency operations, \$18,477,300,000, to remain available for obligations until September 30, 2023.

FY 2021 Overseas Contingency Operations funding can be separated into the following categories:

- OCO for Direct War Costs (\$569,155,000): Direct War costs are those combat or direct combat support costs that will not continue to be expended once combat operations end at major contingency locations.
- OCO for Enduring Requirements: OCO for Enduring Requirements are enduring in-theater and in-CONUS costs that will likely remain after combat operations cease, and have previously been funded in OCO.
- OCO for Base Requirements: OCO for Base Requirements is OCO funding for base budget requirements in support of the National Defense Strategy. The Budget requests these funds in OCO to comply with the base budget defense caps included in the Budget Control Act of 2011.

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Department of the Air Force
 FY 2021 President's Budget
 Exhibit P-1 FY 2021 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

22 Jan 2020

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2019 (Base + OCO) -----	FY 2020 Base Enacted -----	FY 2020 Emergency -----	FY 2020 OCO Enacted -----
01. Combat Aircraft	5,392,022	6,680,659		
02. Airlift Aircraft	4,084,748	3,441,468		338,000
04. Other Aircraft	1,492,546	1,567,767		388,590
05. Modification of Inservice Aircraft	4,313,490	3,658,619		73,135
06. Aircraft Spares and Repair Parts	846,490	690,555	33,124	44,560
07. Aircraft Supt Equipment & Facilities	1,780,139	1,473,293	171,324	7,025
Total Aircraft Procurement, Air Force	17,909,435	17,512,361	204,448	851,310

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(Dollars in Thousands)

22 Jan 2020

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2020 Total Enacted (Base+Emerg+ OCO) -----	FY 2021 Base -----	FY 2021 OCO for Base Requirements -----	FY 2021 OCO for Direct War and Enduring Costs -----
01. Combat Aircraft	6,680,659	6,581,165		
02. Airlift Aircraft	3,779,468	3,290,076		
04. Other Aircraft	1,956,357	1,494,099		330,260
05. Modification of Inservice Aircraft	3,731,754	3,800,965		190,331
06. Aircraft Spares and Repair Parts	768,239	926,683		22,950
07. Aircraft Supt Equipment & Facilities	1,651,642	1,815,157		25,614
Total Aircraft Procurement, Air Force	18,568,119	17,908,145		569,155

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 (Dollars in Thousands)

22 Jan 2020

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2021 Total OCO -----	FY 2021 Total (Base + OCO) -----
01. Combat Aircraft		6,581,165
02. Airlift Aircraft		3,290,076
04. Other Aircraft	330,260	1,824,359
05. Modification of Inservice Aircraft	190,331	3,991,296
06. Aircraft Spares and Repair Parts	22,950	949,633
07. Aircraft Supt Equipment & Facilities	25,614	1,840,771
Total Aircraft Procurement, Air Force	569,155	18,477,300

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

22 Jan 2020

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2019 (Base + OCO)		FY 2020 Base Enacted		FY 2020 Emergency		FY 2020 OCO Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											
Tactical Forces											
1	F-35	A	56	(5,469,122)	62	(5,826,259)					U
	Less: Advance Procurement (PY)			(-608,100)		(-578,200)					U
				4,861,022		5,248,059					
2	F-35										
	Advance Procurement (CY)			406,000		811,500					U
	C (FY 2019 for FY 2020) (M)			(406,000)							
	C (FY 2020 for FY 2021) (M)					(726,500)					
	C (FY 2020 for FY 2022) (M)					(85,000)					
	C (FY 2021 for FY 2022) (M)										
	C (FY 2021 for FY 2023) (M)										
3	F-15e	A			6	621,100					U
4	F-15EX	A									U
5	F-15EX										
	Advance Procurement (CY)										U
	C (FY 2021 for FY 2022) (M)										
Other Combat Aircraft											
6	C-135B	A		125,000							U
Total Combat Aircraft				5,392,022		6,680,659					

Budget Activity 02: Airlift Aircraft

Tactical Airlift

7	KC-46A MDAP	A	15	2,290,932	12	2,139,705					U
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 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Total Enacted (Base+Emerg+OCO)		FY 2021 Base		FY 2021 OCO for Base Requirements		FY 2021 OCO for Direct War and Enduring Costs		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											

Tactical Forces											
1	F-35	A	62	(5,826,259)	48	(5,293,518)					U
	Less: Advance Procurement (PY)			(-578,200)		(-726,500)					U
				-----		-----					
				5,248,059		4,567,018					
2	F-35										
	Advance Procurement (CY)			811,500		610,800					U
	C (FY 2019 for FY 2020) (M)										
	C (FY 2020 for FY 2021) (M)			(726,500)							
	C (FY 2020 for FY 2022) (M)			(85,000)							
	C (FY 2021 for FY 2022) (M)					(462,200)					
	C (FY 2021 for FY 2023) (M)					(148,600)					
3	F-15e	A	6	621,100							U
4	F-15EX	A			12	1,269,847					U
5	F-15EX										
	Advance Procurement (CY)					133,500					U
	C (FY 2021 for FY 2022) (M)					(133,500)					
Other Combat Aircraft											
6	C-135B	A		-----		-----					U
Total Combat Aircraft				6,680,659		6,581,165					
Budget Activity 02: Airlift Aircraft											

Tactical Airlift											
7	KC-46A MDAP	A	12	2,139,705	15	2,850,151					U

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22 Jan 2020

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 Total OCO		FY 2021 Total (Base + OCO)		S e c
			Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft							
Tactical Forces							
1	F-35	A			48	(5,293,518)	U
	Less: Advance Procurement (PY)					(-726,500)	U
						4,567,018	
2	F-35						
	Advance Procurement (CY)					610,800	U
	C (FY 2019 for FY 2020) (M)						
	C (FY 2020 for FY 2021) (M)						
	C (FY 2020 for FY 2022) (M)						
	C (FY 2021 for FY 2022) (M)					(462,200)	
	C (FY 2021 for FY 2023) (M)					(148,600)	
3	F-15e	A					U
4	F-15EX	A			12	1,269,847	U
5	F-15EX						
	Advance Procurement (CY)					133,500	U
	C (FY 2021 for FY 2022) (M)					(133,500)	
Other Combat Aircraft							
6	C-135B	A					U
Total Combat Aircraft						6,581,165	

Budget Activity 02: Airlift Aircraft

Tactical Airlift

7	KC-46A MDAP	A			15	2,850,151	U
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P-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:33:23

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 (Dollars in Thousands)

22 Jan 2020

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2019 (Base + OCO)		FY 2020 Base Enacted		FY 2020 Emergency		FY 2020 OCO Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Airlift											
8	C-130J	A	8	674,100		404,156			4	338,000	U
9	HC-130J	A	2	183,837							U
10	MC-130J	A	6	(747,879)	9	(1,039,607)					U
	Less: Advance Procurement (FY)			(-30,000)		(-182,000)					U
				-----		-----					
				717,879		857,607					
11	MC-130J										
	Advance Procurement (CY)			218,000		40,000					U
	C (FY 2019 for FY 2020) (M)			(182,000)							
	C (FY 2019 for FY 2021) (M)			(16,000)							
	C (FY 2019 for FY 2022) (M)			(16,000)							
	C (FY 2019 for FY 2023) (M)			(4,000)							
	C (FY 2020 for FY 2021) (M)					(40,000)					
	C (FY 2021 for FY 2022) (M)										
				-----		-----					
Total Airlift Aircraft				4,084,748		3,441,468				338,000	
Budget Activity 04: Other Aircraft											

Helicopters											
12	UH-1N Replacement	A									U
13	Combat Rescue Helicopter	A	10	660,358	12	850,535					U
Mission Support Aircraft											
14	C-37A	A			2	159,140					U
15	Civil Air Patrol A/C	A	17	10,800	4	11,000					U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Total Enacted (Base+Emerg+ OCO)		FY 2021 Base		FY 2021 OCO for Base Requirements		FY 2021 OCO for Direct War and Enduring Costs		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Airlift											
8	C-130J	A	4	742,156		37,131					U
9	HC-130J	A									U
10	MC-130J	A	9	(1,039,607)	4	(418,807)					U
	Less: Advance Procurement (FY)			(-182,000)		(-56,000)					U
				857,607		362,807					
11	MC-130J										
	Advance Procurement (CY)			40,000		39,987					U
	C (FY 2019 for FY 2020) (M)										
	C (FY 2019 for FY 2021) (M)										
	C (FY 2019 for FY 2022) (M)										
	C (FY 2019 for FY 2023) (M)										
	C (FY 2020 for FY 2021) (M)			(40,000)							
	C (FY 2021 for FY 2022) (M)					(39,987)					
Total Airlift Aircraft				3,779,468		3,290,076					
Budget Activity 04: Other Aircraft											

Helicopters											
12	UH-1N Replacement	A			8	194,016					U
13	Combat Rescue Helicopter	A	12	850,535	16	973,473			3	174,000	U
Mission Support Aircraft											
14	C-37A	A	2	159,140							U
15	Civil Air Patrol A/C	A	4	11,000		2,811					U

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Line No	Item Nomenclature	Ident Code	FY 2021 Total		FY 2021 Total		S e c
			Quantity	Cost	(Base + OCO) Quantity	Cost	
Other Airlift							
8	C-130J	A			37,131		U
9	HC-130J	A					U
10	MC-130J	A			4	(418,807)	U
	Less: Advance Procurement (FY)					(-56,000)	U
						362,807	
11	MC-130J						
	Advance Procurement (CY)					39,987	U
	C (FY 2019 for FY 2020) (M)						
	C (FY 2019 for FY 2021) (M)						
	C (FY 2019 for FY 2022) (M)						
	C (FY 2019 for FY 2023) (M)						
	C (FY 2020 for FY 2021) (M)						
	C (FY 2021 for FY 2022) (M)					(39,987)	
Total Airlift Aircraft						3,290,076	
Budget Activity 04: Other Aircraft							

Helicopters							
12	UH-1N Replacement	A			8	194,016	U
13	Combat Rescue Helicopter	A	3	174,000	19	1,147,473	U
Mission Support Aircraft							
14	C-37A	A					U
15	Civil Air Patrol A/C	A				2,811	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2019 (Base + OCO)		FY 2020 Base Enacted		FY 2020 Emergency		FY 2020 OCO Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Aircraft											
16	Target Drones	A	35	90,172	37	130,837					U
17	OC-135B	A	1								U
18	Compass Call	A	2	216,113	1	114,095					U
19	Observation Attack Replacement (OA-X)	A		100,000		210,000					U
20	MQ-9	A	24	401,603	3	92,160			21	376,440	U
21	RQ-20B Puma	A	20	13,500					18	12,150	U
Total Other Aircraft				1,492,546		1,567,767				388,590	
Budget Activity 05: Modification of Inservice Aircraft											
Strategic Aircraft											
22	B-1	A									U
23	B-2A	A		60,301		9,582					U
24	B-1B	A		39,690		18,911					U
25	B-52	A		117,230		47,926					U
26	Large Aircraft Infrared Countermeasures	A		143,225		43,758				53,335	U
Tactical Aircraft											
27	A-10	A		168,060		125,825					U
28	E-11 BACN/HAG	A				70,027					U
29	F-15	A		440,856		474,137					U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Total Enacted (Base+Emerg+OCO)		FY 2021 Base		FY 2021 OCO for Base Requirements		FY 2021 OCO for Direct War and Enduring Costs		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Aircraft											
16	Target Drones	A	37	130,837	38	133,273					U
17	OC-135B	A									U
18	Compass Call	A	1	114,095		161,117					U
19	Observation Attack Replacement (OA-X)	A		210,000							U
20	MQ-9	A	24	468,600		29,409				142,490	U
21	RQ-20B Puma	A	18	12,150						13,770	U
Total Other Aircraft				1,956,357		1,494,099				330,260	
Budget Activity 05: Modification of Inservice Aircraft											

Strategic Aircraft											
22	B-1	A				3,853					U
23	B-2A	A		9,582		31,476					U
24	B-1B	A		18,911		21,808					U
25	B-52	A		47,926		53,949					U
26	Large Aircraft Infrared Countermeasures	A		97,093		9,999				57,521	U
Tactical Aircraft											
27	A-10	A		125,825		135,793					U
28	E-11 BACN/HAG	A		70,027		33,645					U
29	F-15	A		474,137		349,304					U

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22 Jan 2020

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 Total OCO		FY 2021 Total (Base + OCO)		S e c
			Quantity	Cost	Quantity	Cost	
Other Aircraft							
16	Target Drones	A			38	133,273	U
17	OC-135B	A					U
18	Compass Call	A				161,117	U
19	Observation Attack Replacement (OA-X)	A					U
20	MQ-9	A		142,490		171,899	U
21	RQ-20B Puma	A		13,770		13,770	U
Total Other Aircraft				330,260		1,824,359	

Budget Activity 05: Modification of Inservice Aircraft

Strategic Aircraft

22	B-1	A				3,853	U
23	B-2A	A				31,476	U
24	B-1B	A				21,808	U
25	B-52	A				53,949	U
26	Large Aircraft Infrared Countermeasures	A		57,521		67,520	U

Tactical Aircraft

27	A-10	A				135,793	U
28	E-11 BACN/HAG	A				33,645	U
29	F-15	A				349,304	U

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22 Jan 2020

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2019 (Base + OCO)		FY 2020 Base Enacted		FY 2020 Emergency		FY 2020 OCO Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	F-16	A		303,413		281,476					U
31	F-16	A		11							U
32	F-22A	A		(264,135)		(323,597)					U
	Less: Advance Procurement (FY)			(-7,500)							U
				256,635		323,597					
33	F-35 Modifications	A		237,271		329,590					U
34	F-15 EPAW	A		214,885		125,417					U
35	Increment 3.2b	A		2,007		20,213					U
36	KC-46A MDAP	A		8,547		5,213					U
Airlift Aircraft											
37	C-5	A		59,779		57,937					U
38	C-17A	A		77,221		60,244					U
39	C-21	A		17,516		216					U
40	C-32A	A		4,537		11,511					U
41	C-37A	A		419		435					U
Trainer Aircraft											
42	Glider Mods	A		137		138					U
43	T-6	A		53,150		11,826					U
44	T-1	A		21,852		26,787					U
45	T-38	A		70,623		37,341					U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Total Enacted (Base+Emerg+OCO)		FY 2021 Base		FY 2021 OCO for Base Requirements		FY 2021 OCO for Direct War and Enduring Costs		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	F-16	A		281,476		615,760					U
31	F-16	A									U
32	F-22A	A		(323,597)		(387,905)					U
	Less: Advance Procurement (PY)										U
				-----		-----		-----		-----	
				323,597		387,905					
33	F-35 Modifications	A		329,590		322,185					U
34	F-15 EPAW	A		125,417	6	31,995					U
35	Increment 3.2b	A		20,213		5,889					U
36	KC-46A MDAP	A		5,213		24,085					U
Airlift Aircraft											
37	C-5	A		57,937		62,108					U
38	C-17A	A		60,244		66,798					U
39	C-21	A		216							U
40	C-32A	A		11,511		2,947					U
41	C-37A	A		435		12,985					U
Trainer Aircraft											
42	Glider Mods	A		138		977					U
43	T-6	A		11,826		26,829					U
44	T-1	A		26,787		4,465					U
45	T-38	A		37,341		36,806					U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 Total OCO		FY 2021 Total (Base + OCO)		S e c -
			Quantity	Cost	Quantity	Cost	
30	F-16	A			615,760		U
31	F-16	A					U
32	F-22A	A			(387,905)		U
	Less: Advance Procurement (FY)						U
					387,905		
33	F-35 Modifications	A			322,185		U
34	F-15 EPAW	A			6	31,995	U
35	Increment 3.2b	A				5,889	U
36	KC-46A MDAP	A				24,085	U
Airlift Aircraft							
37	C-5	A			62,108		U
38	C-17A	A			66,798		U
39	C-21	A					U
40	C-32A	A				2,947	U
41	C-37A	A				12,985	U
Trainer Aircraft							
42	Glider Mods	A				977	U
43	T-6	A				26,829	U
44	T-1	A				4,465	U
45	T-38	A				36,806	U

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22 Jan 2020

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2019 (Base + OCO)		FY 2020 Base Enacted		FY 2020 Emergency		FY 2020 OCO Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Aircraft											
46	U-2 Mods			67,365		58,563					U
47	KC-10A (ATCA)	A		11,104		2,108					U
48	C-12	A		4,900		3,021					U
49	VC-25A Mod	A		27,238		48,624					U
50	C-40	A		251		256					U
51	C-130	A		177,164		186,066					U
52	C-130J Mods	A		101,080		128,399					U
53	C-135	A		91,410		113,351					U
54	OC-135B	A		5,913							U
55	Compass Call	A		172,261		110,754					U
56	combat flight inspection - CFIN	A		499		508					U
57	RC-135	A		394,532		227,673					U
58	E-3	A		48,365		112,092					U
59	E-4	A		67,858		58,477					U
60	E-8	A		37,807		48,778					U
61	Airborne Warning and Cntrl Sys (AWACS) 40/45	A		69,280		32,821					U
62	Family of Beyond Line-of-Sight Terminals	A		14,293		7,910					U
63	H-1	A		11,824		3,817					U
64	H-60	A		92,026		26,879					U

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Line No	Item Nomenclature	Ident Code	FY 2020 Total Enacted (Base+Emerg+OCO)		FY 2021 Base		FY 2021 OCO for Base Requirements		FY 2021 OCO for Direct War and Enduring Costs		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Aircraft											
46	U-2 Mods			58,563		110,618				9,600	U
47	KC-10A (ATCA)	A		2,108		117					U
48	C-12	A		3,021							U
49	VC-25A Mod	A		48,624		1,983					U
50	C-40	A		256		9,252					U
51	C-130	A		186,066		5,871					U
52	C-130J Mods	A		128,399		140,032					U
53	C-135	A		113,351		88,250					U
54	OC-135B	A									U
55	Compass Call	A		110,754		193,389				12,800	U
56	combat flight inspection - CFIN	A		508							U
57	RC-135	A		227,673		191,332					U
58	E-3	A		112,092		172,141					U
59	E-4	A		58,477		58,803					U
60	E-8	A		48,778		11,037					U
61	Airborne Warning and Cntrl Sys (AWACS) 40/45	A		32,821		53,343					U
62	Family of Beyond Line-of-Sight Terminals	A		7,910		1,573					U
63	H-1	A		3,817		4,410					U
64	H-60	A		26,879		44,538					U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 Total OCO		FY 2021 Total (Base + OCO)		S e c
			Quantity	Cost	Quantity	Cost	
Other Aircraft							
46	U-2 Mods			9,600		120,218	U
47	KC-10A (ATCA)	A				117	U
48	C-12	A					U
49	VC-25A Mod	A				1,983	U
50	C-40	A				9,252	U
51	C-130	A				5,871	U
52	C-130J Mods	A				140,032	U
53	C-135	A				88,250	U
54	OC-135B	A					U
55	Compass Call	A		12,800		206,189	U
56	combat flight inspection - CFIN	A					U
57	RC-135	A				191,332	U
58	E-3	A				172,141	U
59	E-4	A				58,803	U
60	E-8	A				11,037	U
61	Airborne Warning and Cntrl Sys (AWACS) 40/45	A				53,343	U
62	Family of Beyond Line-of-Sight Terminals	A				1,573	U
63	H-1	A				4,410	U
64	H-60	A				44,538	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2019 (Base + OCO)		FY 2020 Base Enacted		FY 2020 Emergency		FY 2020 OCO Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
65	RQ-4 Mods	A		123,715		1,704					U
66	HC/MC-130 Modifications	A		125,654		34,850					U
67	Other Aircraft	A		98,566		50,098					U
68	MQ-9 Mods	A		189,948		254,415					U
69	MQ-9 UAS Payloads	A		23,000						19,800	U
70	CV-22 Mods	A		60,072		65,348					U
Total Modification of Inservice Aircraft				4,313,490		3,658,619				73,135	
Budget Activity 06: Aircraft Spares and Repair Parts											

Aircraft Spares and Repair Parts											
71	Initial Spares/Repair Parts	A		846,490		690,555		33,124		44,560	U
72	MQ-9	A									U
Total Aircraft Spares and Repair Parts				846,490		690,555		33,124		44,560	
Budget Activity 07: Aircraft Supt Equipment & Facilities											

Common Support Equipment											
73	Aircraft Replacement Support Equip	A		108,860		84,938		1,249		7,025	U
Post Production Support											
74	B-2A	A		1,763		1,403					U
75	B-2B	A		35,861		42,234					U
76	B-52	A		12,819		2,341					U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Total Enacted (Base+Emerg+OCO)		FY 2021 Base		FY 2021 OCO for Base Requirements		FY 2021 OCO for Direct War and Enduring Costs		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
65	RQ-4 Mods	A		1,704		40,468					U
66	HC/MC-130 Modifications	A		34,850		20,780			58,020		U
67	Other Aircraft	A		50,098		100,774					U
68	MQ-9 Mods	A		254,415		188,387					U
69	MQ-9 UAS Payloads	A		19,800					46,100		U
70	CV-22 Mods	A		65,348		122,306			6,290		U
Total Modification of Inservice Aircraft				3,731,754		3,800,965			190,331		
Budget Activity 06: Aircraft Spares and Repair Parts											
Aircraft Spares and Repair Parts											
71	Initial Spares/Repair Parts	A		768,239		926,683			10,700		U
72	MQ-9	A							12,250		U
Total Aircraft Spares and Repair Parts				768,239		926,683			22,950		
Budget Activity 07: Aircraft Supt Equipment & Facilities											
Common Support Equipment											
73	Aircraft Replacement Support Equip	A		93,212		132,719			25,614		U
Post Production Support											
74	B-2A	A		1,403		1,683					U
75	B-2B	A		42,234		46,734					U
76	B-52	A		2,341		1,034					U

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Line No	Item Nomenclature	Ident Code	FY 2021 Total OCO		FY 2021 Total (Base + OCO)		S e c -
			Quantity	Cost	Quantity	Cost	
65	RQ-4 Mods	A			40,468		U
66	HC/MC-130 Modifications	A		58,020	78,800		U
67	Other Aircraft	A			100,774		U
68	MQ-9 Mods	A			188,387		U
69	MQ-9 UAS Payloads	A		46,100	46,100		U
70	CV-22 Mods	A		6,290	128,596		U
Total Modification of Inservice Aircraft				190,331	3,991,296		
Budget Activity 06: Aircraft Spares and Repair Parts							

Aircraft Spares and Repair Parts							
71	Initial Spares/Repair Parts	A		10,700	937,383		U
72	MQ-9	A		12,250	12,250		U
Total Aircraft Spares and Repair Parts				22,950	949,633		
Budget Activity 07: Aircraft Supt Equipment & Facilities							

Common Support Equipment							
73	Aircraft Replacement Support Equip	A		25,614	158,333		U
Post Production Support							
74	B-2A	A			1,683		U
75	B-2B	A			46,734		U
76	B-52	A			1,034		U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2019 (Base + OCO)		FY 2020 Base Enacted		FY 2020 Emergency		FY 2020 OCO Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
77	C-17A	A		10,114		124,805					U
78	RC-135	A						170,075			U
79	E-11 BACN/HAG	A									U
80	F-15	A		7,472		2,589					U
81	F-16	A		4,918		11,402					U
82	F-22A	A		64,489							U
83	Other Aircraft	A		9,688							U
84	RQ-4 Post Production Charges	A		40,641		47,246					U
Industrial Preparedness											
85	Industrial Responsiveness	A		17,378		17,705					U
War Consumables											
86	War Consumables	A		29,342		32,102					U
Other Production Charges											
87	Other Production Charges	A		1,400,193		1,072,335					U
89	Spectrum Relocation Fund	A		8,323							U
999	Classified Programs			28,278		34,193					U
Total Aircraft Supt Equipment & Facilities				1,780,139		1,473,293		171,324		7,025	
Total Aircraft Procurement, Air Force				17,909,435		17,512,361		204,448		851,310	

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
77	C-17A	A		124,805							U
78	RC-135	A		170,075							U
79	E-11 BACN/HAG	A				63,419					U
80	F-15	A		2,589		2,632					U
81	F-16	A		11,402		14,163					U
82	F-22A	A									U
83	Other Aircraft	A				4,595					U
84	RQ-4 Post Production Charges	A		47,246		32,585					U
Industrial Preparedness											
85	Industrial Responsiveness	A		17,705		18,215					U
War Consumables											
86	War Consumables	A		32,102		36,046					U
Other Production Charges											
87	Other Production Charges	A		1,072,335		1,439,640					U
89	Spectrum Relocation Fund	A									U
999	Classified Programs			34,193		21,692					U
Total Aircraft Supt Equipment & Facilities				1,651,642		1,815,157				25,614	
Total Aircraft Procurement, Air Force				18,568,119		17,908,145				569,155	

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Line No	Item Nomenclature	Ident Code	FY 2021 Total		FY 2021 Total		S e c
			Quantity	Cost	(Base + OCO) Quantity	Cost	
77	C-17A	A					U
78	RC-135	A					U
79	E-11 BACN/HAG	A			63,419		U
80	F-15	A			2,632		U
81	F-16	A			14,163		U
82	F-22A	A					U
83	Other Aircraft	A			4,595		U
84	RQ-4 Post Production Charges	A			32,585		U
Industrial Preparedness							
85	Industrial Responsiveness	A			18,215		U
War Consumables							
86	War Consumables	A			36,046		U
Other Production Charges							
87	Other Production Charges	A			1,439,640		U
89	Spectrum Relocation Fund	A					U
999	Classified Programs				21,692		U
Total Aircraft Supt Equipment & Facilities				25,614	1,840,771		
Total Aircraft Procurement, Air Force				569,155	18,477,300		

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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	- Undefined Contract Action
WP	- Work Project

CONTRACTED BY ACRONYMS

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

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AFLCMC	- Air Force Life Cycle Management Center, Wright-Patterson AFB, OH
AFMC	- Air Force Materiel Command, Wright-Patterson AFB, OH
AFMETCAL	- Air Force Metrology and Calibration Office, Heath, Ohio
AFMLO	- Air Force Medical Logistics Office, Ft Detrick, MD
AIA	- Air Intelligence Agency, Kelly AFB, TX
AMC	- Air Mobility Command, Scott AFB, IL
ASC	- Aeronautical Systems Center, Wright-Patterson AFB, OH & Eglin AFB, FL
AFWA	- Air Force Weather Agency, Offutt AFB, NE
DGSC	- Defense General Support Center, Richmond, VA
DPSC	- Defense Personnel Support Center, Philadelphia, PA
ER	- Eastern Range, Patrick 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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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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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: 0604800F
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Line Item MDAP/MAIS Code: 198

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	282	56	62	48	-	48	48	48	48	48	1,137	1,777
Gross/Weapon System Cost (<i>\$ in Millions</i>)	39,391.327	5,469.122	5,826.259	5,293.518	-	5,293.518	4,885.822	4,804.484	4,796.062	4,841.205	157,892.726	233,200.525
Less PY Advance Procurement (<i>\$ in Millions</i>)	3,726.693	608.100	578.200	726.500	-	726.500	547.200	540.800	552.900	560.000	20,983.243	28,823.636
Net Procurement (P-1) (<i>\$ in Millions</i>)	35,664.634	4,861.022	5,248.059	4,567.018	-	4,567.018	4,338.622	4,263.684	4,243.162	4,281.205	136,909.483	204,376.889
Plus CY Advance Procurement (<i>\$ in Millions</i>)	4,553.993	406.000	811.500	610.800	-	610.800	392.200	634.000	641.100	403.900	20,370.143	28,823.636
Total Obligation Authority (<i>\$ in Millions</i>)	40,218.627	5,267.022	6,059.559	5,177.818	-	5,177.818	4,730.822	4,897.684	4,884.262	4,685.105	157,279.626	233,200.525

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

Initial Spares (<i>\$ in Millions</i>)	2,223.790	357.565	401.080	294.595	-	294.595	300.770	304.190	303.050	308.465	3,278.915	7,772.420
Flyaway Unit Cost (<i>\$ in Millions</i>)	124.728	89.970	86.088	86.956	-	86.956	87.298	88.522	85.801	86.617	132.274	122.023
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	139.686	97.663	93.972	110.282	-	110.282	101.788	100.093	99.918	100.858	138.868	131.233

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 2020.
- (2) Budgeted Quantities to complete should be 1,123.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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
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Line Item MDAP/MAIS Code: 198

Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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		282 / 39,391.327	56 / 5,469.122	62 / 5,826.259	48 / 5,293.518	- / -	48 / 5,293.518
P-40	Total Gross/Weapon System Cost				282 / 39,391.327	56 / 5,469.122	62 / 5,826.259	48 / 5,293.518	- / -	48 / 5,293.518

*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 FY2021 BUDGET REQUEST: The FY2021 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.

FY2021 Lot 15 (FY2021 request) has a lower production quantity compared to Lot 14 due to production in Partner & FMS Lot 14 aircraft quantity corresponds to Lot 15 production and when partner and foreign military sales quantities are accounted for, Lot 15 has a lower production quantity as compared to Lot 14 quantities. 10 of 48 requested in FY2021 will be priced at Lot 14 negotiated unit-recurring flyaway price of \$77.9M per aircraft (pricing does not include non-recurring, AME, support or spares costs which are listed in respective cost elements) and are in Lot 14 production flow due to the removal of Partner from the F-35 program. Moreover, the 10 aircraft further reduce the Lot 15 production quantity for negotiating. Lot 15 is also the initial production incorporation of hardware to support Block IV capabilities. As a result of removal of Partner from F-35 program, supply chain sources have been transitioned to alternate production sources which will have higher pricing for those particular components. These combined factors may challenge the F-35 Joint Strike Fighter Program Office's ability to achieve lot over lot savings that are comparable to prior years.

Non-recurring flyaway costs for FY2021 include costs for tooling refurbishment as well as tooling required to support new hardware introduced for Block IV 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 redesign within the performance envelope to the production line. Other non-recurring costs include but are not limited to chase support for government acceptance flights and production readiness reviews to address program risks and cost reduction initiatives.

Support costs in FY2021 include costs that are fixed in nature and do not fluctuate with aircraft quantities in particular years. For F-35A these costs include peculiar ground support equipment to support squadron and site stand-ups. FY2021 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.

Support also include costs for 10 full mission simulators at NAS Dannelly Field and NAS JRB Ft. Worth as well as other training equipment.

Depot activation efforts continue in FY2021 increasing repair capacity necessary for long-term sustainment of F-35 aircraft. FT2021 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. FY2021 also includes funding for propulsion depot standup at numerous U.S. depot locations.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: ATA000 / F-35	Item Number / Title [DODIC]: F-35

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	282	56	62	48	-	48
Gross/Weapon System Cost (\$ in Millions)	39,391.327	5,469.122	5,826.259	5,293.518	-	5,293.518
Less PY Advance Procurement (\$ in Millions)	3,726.693	608.100	578.200	726.500	-	726.500
Net Procurement (P-1) (\$ in Millions)	35,664.634	4,861.022	5,248.059	4,567.018	-	4,567.018
Plus CY Advance Procurement (\$ in Millions)	4,553.993	406.000	811.500	610.800	-	610.800
Total Obligation Authority (\$ in Millions)	40,218.627	5,267.022	6,059.559	5,177.818	-	5,177.818

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

Initial Spares (\$ in Millions)	2,223.790	357.565	401.080	294.595	-	294.595
Gross/Weapon System Unit Cost (\$ in Millions)	139.686	97.663	93.972	110.282	-	110.282

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 ^(†)	73.124	282	20,620.968	52.537	56	2,942.055	51.819	62	3,212.794	52.433	48	2,516.790	-	-	-	52.433	48	2,516.790
CFE Electronics	21.394	282	6,033.048	12.964	56	725.964	12.437	62	771.083	12.343	48	592.469	-	-	-	12.343	48	592.469
Engines/Eng ACC ^(†)	14.019	282	3,953.248	12.371	56	692.776	12.371	62	767.002	12.526	48	601.229	-	-	-	12.526	48	601.229
ECO	2.649	282	746.960	1.762	56	98.649	1.692	62	104.931	1.546	48	74.210	-	-	-	1.546	48	74.210
<i>Subtotal: Recurring Cost</i>	-	-	31,354.224	-	-	4,459.444	-	-	4,855.810	-	-	3,784.698	-	-	-	-	-	3,784.698
Non Recurring Cost																		
Non-Recurring Cost	-	-	2,597.748	-	-	326.274	-	-	185.946	-	-	172.056	-	-	-	-	-	172.056
Ancillary Equip	-	-	1,221.193	-	-	252.605	-	-	295.730	-	-	217.143	-	-	-	-	-	217.143
<i>Subtotal: Non Recurring Cost</i>	-	-	3,818.941	-	-	578.879	-	-	481.676	-	-	389.199	-	-	-	-	-	389.199
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	35,173.165	-	-	5,038.323	-	-	5,337.486	-	-	4,173.897	-	-	-	-	-	4,173.897
Support - Support End Item Cost																		
Airframe PGSE	-	-	601.260	-	-	64.280	-	-	74.721	-	-	182.810	-	-	-	-	-	182.810
Engine PGSE	-	-	276.934	-	-	4.245	-	-	18.127	-	-	25.152	-	-	-	-	-	25.152
Avionics PGSE	-	-	542.794	-	-	8.807	-	-	10.700	-	-	23.824	-	-	-	-	-	23.824
Peculiar Training Equipment	-	-	494.253	-	-	12.048	-	-	7.528	-	-	23.447	-	-	-	-	-	23.447
Full Mission Simulators	12.033	34	409.106	-	-	0.000	-	-	55.787	-	-	114.178	-	-	-	-	-	114.178
ALIS	-	-	131.009	-	-	7.694	-	-	19.446	-	-	39.942	-	-	-	-	-	39.942
Production Eng Support	-	-	651.370	-	-	93.688	-	-	93.840	-	-	112.192	-	-	-	-	-	112.192

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: ATA000 / F-35	Item Number / Title [DODIC]: F-35
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Other ILS	-	-	907.293	-	-	87.019	-	-	44.088	-	-	56.381	-	-	-	-	-	56.381
Miscellaneous Support	-	-	4.143	-	-	0.000	-	-	0.000	-	-	156.000	-	-	-	-	-	156.000
Field Activities	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Depot Standup	-	-	200.000	-	-	153.018	-	-	164.536	-	-	385.695	-	-	-	-	-	385.695
<i>Subtotal: Support - Support End Item Cost</i>	-	-	4,218.162	-	-	430.799	-	-	488.773	-	-	1,119.621	-	-	-	-	-	1,119.621
Gross/Weapon System Cost	139.686	282	39,391.327	97.663	56	5,469.122	93.972	62	5,826.259	110.282	48	5,293.518	-	-	-	110.282	48	5,293.518

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) Engines: Increase in engine unit cost in FY2021 as compared to FY2020 is a result of inflation.
- (3) ECO: FY2019 and FY2020 includes costs associated with 8 aircraft each year (total 24, 8 of aircraft with inclusion of 8 in FY2018) to make configuration changes required to deliver previously planned aircraft in production flow to USAF configured aircraft.
- (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, FY2021 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). Increase in FY2021 non-recurring is a result of efforts associated with establishing second sources to strengthen F-35 supply chain and ensure continued F-35 production and non-recurring engineering required to implement production improvements to mitigate DMS in subcomponents of Radar and Electronic Warfare modules.
- (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.
- (6) Year to year changes in Autonomic Logistics Information System (ALIS) are a result of investments required to support site and squadron stand-ups.
- (7) Other ILS: Increase in FY2021 costs is a result of increased aircraft deliveries resulting from prior year Congressional adds. FY21 costs support delivery of Lot 12 aircraft
- (8) Production Engineering Support: Increase in production engineering support is primarily driven by cost-sharing rebalancing across F-35 enterprise. Increase is also a result of adjustments to FY2019 for escalation driven by locality increases.
- (9) Airframe PGSE: Increase in peculiar ground support equipment is a result of support equipment necessary for training squadron standups.
- (10) Depot Standup: Increase in FY2021 as compared to FY2020 is a result of acceleration of depot standup to support depot maintenance of aircraft and repair of aircraft components.
- (11) Miscellaneous Support: FY21 amount reflects prior year credit adjustments due to FY20 advanced procurement Congressional plus-up to support increase to 60 aircraft. If FY20 advanced procurement is not utilized, FY21 credit will not be generated.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: ATA000 / F-35	Item Number / Title [DODIC]: F-35
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	

Totals may not add due to rounding.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: ATA000 / F-35	Item Number / Title [DODIC]: F-35
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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 ^(†)		2019	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2019	Jan 2021	56	52.537	Y		Jan 2018
Airframe/CFE ^(†)		2020	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2020	Jan 2022	62	51.819	Y		Jan 2019
Airframe/CFE ^(†)		2021	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2021	Jan 2023	48	52.433	Y		Jan 2020
Engines/Eng ACC ^(†)		2019	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	May 2019	May 2020	56	12.371	Y		Mar 2018
Engines/Eng ACC ^(†)		2020	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	May 2020	May 2021	62	12.371	Y		Mar 2019
Engines/Eng ACC ^(†)		2021	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	May 2021	May 2022	48	12.526	Y		Mar 2020
Advance Procurement												
Airframe/CFE: Long Lead Material		2021	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2021	Jan 2023	48	5.807	Y		Jan 2020
Airframe/CFE: For FY22 Economic Order Quantity (Lot 16)		2021	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2021	Jan 2023	1	147.380	Y		Jan 2020
Airframe/CFE: For FY23 Economic Order Quantity (Lot 17)		2021	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2021	Jan 2023	1	127.600	Y		Jan 2020
Engines/Eng ACC: Long Lead Material		2021	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	May 2021	May 2022	48	1.189	Y		Mar 2020

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

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 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	48	0	48																							48						
Engines/Eng ACC																																			
Prior Years Deliveries: 282																																			
	2	2019	AF	56	0	56																							36						
	2	2020	AF	62	0	62																							62						
	2	2021	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 2021 Air Force **Date:** February 2020

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

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		48	0	48							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48		

Engines/Eng ACC																																
Prior Years Deliveries: 282																																
2	2019	AF		56	20	36	5	5	5	5	5	6	5																			0
2	2020	AF		62	0	62	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	6	6							0
2	2021	AF		48	0	48							A	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	28	

							O C T	N O V	D E C	J A N	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 2021 Air Force **Date:** February 2020

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	48	0	48	-	-	-	2	4	2	3	3	3	3	5	7	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	48	20	28	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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: ATA000 / F-35	Item Number / Title [DODIC]: F-35
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2021	1-8-5 For 2021	MAX For 2021	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	8	6	22	28
2	Pratt & Whitney - East Hartford, CT	24	48	60	0	0	0	0	6	8	12	20

"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, Advance Procurement Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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Program Elements for Code B Items: N/A	Other Related Program Elements: 0604800F
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Line Item MDAP/MAIS Code: 198

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,553.993	406.000	811.500	610.800	-	610.800	392.200	634.000	641.100	403.900	20,370.143	28,823.636
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,553.993	406.000	811.500	610.800	-	610.800	392.200	634.000	641.100	403.900	20,370.143	28,823.636
Total Obligation Authority (<i>\$ in Millions</i>)	4,553.993	406.000	811.500	610.800	-	610.800	392.200	634.000	641.100	403.900	20,370.143	28,823.636

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 FY21 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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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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
Program Elements for Code B Items: N/A		Other Related Program Elements: 0604800F

Line Item MDAP/MAIS Code: 198

Exhibits Schedule				Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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			282 / 4,553.993	56 / 406.000	62 / 811.500	48 / 610.800	- / -	48 / 610.800
P-40	Total Gross/Weapon System Cost			282 / 4,553.993	56 / 406.000	62 / 811.500	48 / 610.800	- / -	48 / 610.800

*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 FY2021 budget requests \$610.8M of Advanced Procurement for FY2022 long lead materials, as well as second portion of funding associated with FY2021 thru FY2023 Economic Order Quantity materials. The Advance Procurement (AP) funding requested in FY2021 will support Airframe and Engine long-lead parts and materials necessary to protect the Lot 16 delivery schedule.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2021 Air Force					Date: February 2020		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3			P-1 Line Item Number / Title: ATA000 / F-35			P-5 Number / Title: F-35	
First System (2021) Award Date: January 2020		First System (2021) Completion Date: January 2023			Interval Between Systems: 0 Months		
F-35		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2019 <i>(Each)</i>	FY 2020 <i>(Each)</i>	FY 2021 <i>(Each)</i>	
Quantity		9	282	56	62	48	
Cost Elements		When Required <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2019 <i>(\$ M)</i>	FY 2020 <i>(\$ M)</i>	FY 2021 <i>(\$ M)</i>	
CFE							
Airframe/CFE: Long Lead Material ^(†)		18	3,459.184	336.980	327.950	278.731	
Airframe/CFE: For FY19 Economic Order Quantity (Lot 13)		18	165.000	-	-	-	
Airframe/CFE: For FY20 Economic Order Quantity (Lot 14)		30	165.000	-	-	-	
Airframe/CFE: For FY21 Economic Order Quantity (Lot 15)		0	-	-	175.380	-	
Airframe/CFE: For FY22 Economic Order Quantity (Lot 16) ^(†)		0	-	-	42.600	147.380	
Airframe/CFE: For FY23 Economic Order Quantity (Lot 17) ^(†)		0	-	-	42.400	127.600	
Airframe/CFE: Long Lead Material (FY20 Enacted Increase)		18	-	-	156.000	-	
Total: CFE			3,789.184	336.980	744.330	553.711	
GFE							
Engines/Eng ACC: Long Lead Material ^(†)		9	764.809	69.020	67.170	57.089	
Total: GFE			764.809	69.020	67.170	57.089	
Total Advance Procurement/Obligation Authority			4,553.993	406.000	811.500	610.800	

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2021 Air Force						Date: February 2020	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3			P-1 Line Item Number / Title: ATA000 / F-35			P-5 Number / Title: F-35	
Cost Elements	QPA <i>(Each)</i>	FY 2021					
		Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ M)</i>	Contract Forecast Date	2021 Qty <i>(Each)</i>	For FY	Total Cost Request <i>(\$ M)</i>
CFE							
Airframe/CFE: Long Lead Material ^(†)	1	0	5.807	Mar 2021	48		278.731
Airframe/CFE: For FY19 Economic Order Quantity (Lot 13)	-						-
Airframe/CFE: For FY20 Economic Order Quantity (Lot 14)	-						-
Airframe/CFE: For FY21 Economic Order Quantity (Lot 15)	-						-
Airframe/CFE: For FY22 Economic Order Quantity (Lot 16) ^(†)	-	0	147.380	Mar 2021	1		147.380
Airframe/CFE: For FY23 Economic Order Quantity (Lot 17) ^(†)	-	0	127.600	Mar 2021	1		127.600
Airframe/CFE: Long Lead Material (FY20 Enacted Increase)	-						-
<i>Total: CFE</i>							553.711
GFE							
Engines/Eng ACC: Long Lead Material ^(†)	1	0	1.189	May 2021	48		57.089
<i>Total: GFE</i>							57.089
Total Advance Procurement/Obligation Authority							610.800

Description:
F-35 Advanced Procurement.

^(†) 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 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	6	-	-	-	-	-	-	-	-	6
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	621.100	0.000	-	0.000	0.000	0.000	0.000	0.000	-	621.100
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	621.100	0.000	-	0.000	0.000	0.000	0.000	0.000	-	621.100
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	621.100	0.000	-	0.000	0.000	0.000	0.000	0.000	-	621.100

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

Description:

Note: This program was transferred to F015EX/F-15EX starting in FY21 for transparency.

The expected minimum 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 Acquisition program, not a Major Defense Acquisition Program. Once the program transitions to a Major Defense Acquisition Program and the Acquisition Program Baseline is approved, the total program quantity for F-15EX will be established. All numbers are based on the Air Force Cost Analysis Agency's initial 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. Many F-15C/Ds are beyond their service life and have SERIOUS structures risks, wire chafing issues, and obsolete parts. Readiness goals are unachievable due to continuous structural inspections, time-consuming repairs, and on-going modernization efforts. The average F-15C/D is 36 years old with over 8,400 flight hours; the oldest F-15C was delivered in 1979. F-15EX logistics, maintenance, and training will heavily leverage the existing F-15 infrastructure.

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts.

Justification:

BASIS FOR FY2021 BUDGET REQUEST: The FY21 budget provides funding for 12 F-15EX aircraft in PE 0207146F F-15EX and associated support equipment, training systems upgrades and materials, depot stand-up planning, and other related items to manufacture the aircraft, provide operational conversion (from F-15C/D to F-15EX) support, and meet logistics and sustainment requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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: N/A

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	12	-	12	12	14	19	19	60	136
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	1,269.847	-	1,269.847	1,480.152	1,502.155	2,217.670	2,226.026	-	8,695.850
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	-	0.000	133.500	0.000	0.000	0.000	-	133.500
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	1,269.847	-	1,269.847	1,346.652	1,502.155	2,217.670	2,226.026	-	8,562.350
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	0.000	0.000	133.500	-	133.500	0.000	0.000	0.000	0.000	-	133.500
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	1,403.347	-	1,403.347	1,346.652	1,502.155	2,217.670	2,226.026	-	8,695.850

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	101.000	-	101.000	-	-	-	-	-	101.000
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	87.700	-	87.700	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	105.821	-	105.821	123.346	107.297	116.719	117.159	-	63.940

Description:

Note: FY20 funding for this program was reported in F015EO/F-15e.

The expected minimum 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 Acquisition program, not a Major Defense Acquisition Program. Once the program transitions to a Major Defense Acquisition Program and the Acquisition Program Baseline is approved, the total program quantity for F-15EX will be established. All numbers are based on the Air Force Cost Analysis Agency's initial 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. Many F-15C/Ds are beyond their service life and have serious structures risks, wire chafing issues, and obsolete parts. Readiness goals are unachievable due to continuous structural inspections, time-consuming repairs, and on-going modernization efforts. The average F-15C/D is 36 years old with over 8,400 flight hours; the oldest F-15C was delivered in 1979. F-15EX logistics, maintenance, and training will heavily leverage existing the F-15 infrastructure.

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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: N/A

Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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	- / 0.000	12 / 1,269.847	- / -	12 / 1,269.847
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 0.000	12 / 1,269.847	- / -	12 / 1,269.847

*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 FY2021 BUDGET REQUEST: The FY21 budget provides funding for 12 F-15EX aircraft and associated support equipment, training system upgrades and materials, depot stand-up planning, initial spares, and other related items to manufacture the aircraft, provide operational conversion (from F-15C/D to F-15EX) support, and meet logistics and sustainment requirements. Once an approved acquisition program baseline is approved, the Air Force will work to properly align funding for initial spares, etc.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: F015EX / F-15EX	Item Number / Title [DODIC]: F-15EX

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	-	-	-	12	-	12
Gross/Weapon System Cost (\$ in Millions)	-	0.000	0.000	1,269.847	-	1,269.847
Less PY Advance Procurement (\$ in Millions)	-	0.000	0.000	0.000	-	0.000
Net Procurement (P-1) (\$ in Millions)	-	0.000	0.000	1,269.847	-	1,269.847
Plus CY Advance Procurement (\$ in Millions)	-	0.000	0.000	133.500	-	133.500
Total Obligation Authority (\$ in Millions)	-	0.000	0.000	1,403.347	-	1,403.347

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

Initial Spares (\$ in Millions)	-	-	-	101.000	-	101.000
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	105.821	-	105.821

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - F-15EX Cost																		
Recurring Cost																		
Airframe ^(†)	-	-	-	-	-	0.000	-	-	0.000	73.600	12	883.200	-	-	-	73.600	12	883.200
Engines (2) ^(†)	-	-	-	-	-	-	-	-	-	11.200	12	134.400	-	-	-	11.200	12	134.400
AME	-	-	-	-	-	-	-	-	-	1.100	12	13.200	-	-	-	1.100	12	13.200
ECO	-	-	-	-	-	-	-	-	-	1.800	12	21.600	-	-	-	1.800	12	21.600
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>1,052.400</i>	-	-	-	-	-	<i>1,052.400</i>
Non Recurring Cost																		
Non-Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.000</i>	-	-	-	-	-	<i>0.000</i>
<i>Subtotal: Flyaway - F-15EX Cost</i>	-	-	-	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>1,052.400</i>	-	-	-	-	-	<i>1,052.400</i>
Support - F-15EX Cost																		
Other Support Costs	-	-	-	-	-	-	-	-	-	-	-	71.447	-	-	-	-	-	71.447
Training	-	-	-	-	-	-	-	-	-	-	-	25.000	-	-	-	-	-	25.000
Support Equipment	-	-	-	-	-	-	-	-	-	-	-	20.000	-	-	-	-	-	20.000
Initial Spares	-	-	-	-	-	-	-	-	-	-	-	101.000	-	-	-	-	-	101.000
<i>Subtotal: Support - F-15EX Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>217.447</i>	-	-	-	-	-	<i>217.447</i>
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	0.000	105.821	12	1,269.847	-	-	-	105.821	12	1,269.847

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: F015EX / F-15EX	Item Number / Title [DODIC]: F-15EX
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Remarks: FY 2020 funding is appropriated in Program 0207134F F015E0. Once an approved acquisition program baseline is established, the Air Force will work to properly align funding for initial spares. (t) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: F015EX / F-15EX	Item Number / Title [DODIC]: 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 ^(†)		2021	Boeing / St. Louis, MO	SS / FPIF	AFLCMC/WW - Fighter/Bomber	Jan 2021	Apr 2024	12	73.600	Y		Apr 2020
Engines (2) ^(†)		2021	General Electric / San Antonio, TX	SS / FFP	AFLCMC Wright Patterson AFB	Jan 2021	Jan 2023	12	11.200	Y		Apr 2020
Advance Procurement												
Airframe: Long-Lead Material		2021	Boeing / St. Louis, MO	SS / FPIF	AFLCMC/WW - Fighter/Bomber	Jan 2021	Apr 2024	12	11.125	Y		Apr 2020

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

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 <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					
Airframe																																			
1	2021	AF		12	0	12																								12					
Engines (2)																																			
2	2021	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					

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: F015EX / F-15EX	Item Number / Title [DODIC]: F-15EX
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024												B A L A N C E																			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 2	BAL D U E A S O F 1 O C T	Calendar Year 2023														Calendar Year 2024																														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																					
Airframe																																																			
1	2021	AF		12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	0																
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	1	1	1	1	1	1	0																	
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> </tr> </table>																												O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												

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Exhibit P-21, Production Schedule: PB 2021 Air Force	Date: February 2020
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: F015EX / F-15EX	Item Number / Title [DODIC]: F-15EX
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2021	1-8-5 For 2021	MAX For 2021	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	12	18	24	0	0	0	0	0	0	4	39	43
2	General Electric - San Antonio, TX	12	18	30	0	0	0	0	0	0	4	24	28

Remarks:

Engine procurement quantities represent one set per aircraft. Boeing may make pre-contract investments to further accelerate aircraft deliveries.

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

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

UNCLASSIFIED

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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Program Elements for Code B Items: N/A	Other Related Program Elements: 0207134F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	133.500	-	133.500	0.000	0.000	0.000	0.000	-	133.500
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	133.500	-	133.500	0.000	0.000	0.000	0.000	-	133.500
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	133.500	-	133.500	0.000	0.000	0.000	0.000	-	133.500

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. Many F-15C/Ds are beyond their service life and have SERIOUS structures risks, wire chafing issues, and obsolete parts. Readiness goals are unachievable due to continuous structural inspections, time-consuming repairs, and on-going modernization efforts. The average F-15C/D is 36 years old with over 8,400 flight hours; the oldest F-15C was delivered in 1979. F-15EX logistics, maintenance, and training will heavily leverage existing the F-15 infrastructure. Advance Procurement funding will support airframe long-lead parts and materials necessary to protect the delivery schedule of the FY22 aircraft buy.

UNCLASSIFIED

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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
Program Elements for Code B Items: N/A		Other Related Program Elements: 0207134F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule				Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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	- / 0.000	12 / 133.500	- / -	12 / 133.500
P-40	Total Gross/Weapon System Cost			- / -	- / 0.000	- / 0.000	12 / 133.500	- / -	12 / 133.500

*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 FY21 budget requests \$133.5M of Advanced Procurement for FY22 long-lead materials.

UNCLASSIFIED

Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2021 Air Force					Date: February 2020		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3			P-1 Line Item Number / Title: F015EX / F-15EX			P-5 Number / Title: F-15EX	
First System (2021) Award Date: January 2021		First System (2021) Completion Date: April 2024			Interval Between Systems: 0 Months		
F-15EX		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2019 <i>(Each)</i>	FY 2020 <i>(Each)</i>	FY 2021 <i>(Each)</i>	
Quantity		12	-	-	-	12	
Cost Elements		When Required <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2019 <i>(\$ M)</i>	FY 2020 <i>(\$ M)</i>	FY 2021 <i>(\$ M)</i>	
CFE							
Airframe: Long-Lead Material ^(†)		12	-	-	-	133.500	
<i>Total: CFE</i>			-	-	-	133.500	
Total Advance Procurement/Obligation Authority			-	0.000	0.000	133.500	

UNCLASSIFIED

Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2021 Air Force						Date: February 2020	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3			P-1 Line Item Number / Title: F015EX / F-15EX			P-5 Number / Title: F-15EX	
FY 2021							
Cost Elements	QPA (Each)	Production Leadtime (Months)	Unit Cost (\$ M)	Contract Forecast Date	2021 Qty (Each)	For FY	Total Cost Request (\$ M)
CFE							
Airframe: Long-Lead Material ^(†)	1	12	11.125	Jan 2021	12		133.500
<i>Total: CFE</i>							133.500
Total Advance Procurement/Obligation Authority							133.500

Description:

The FY21 budget requests \$133.5M of Advanced Procurement for long-lead materials for 12 F-15EX aircraft to be procured in FY22.

^(†) 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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 4: Other Combat Aircraft	P-1 Line Item Number / Title: C135B0 / C-135B
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305145F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	125.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	125.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	125.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	125.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	125.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	125.000

(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>)	-	113.350	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Open Skies Treaty permits unarmed overflight of the sovereign territory of 34 signatory nations. The Treaty enhances mutual understanding and confidence by giving all participants, regardless of size, a direct role in gathering information through aerial imaging on military forces and activities of concern. Open Skies is one of the most wide-ranging international arms control efforts to date to promote openness and transparency in military forces and activities.

The Department of Defense is responsible for oversight, implementation of, and compliance with, arms control agreements, including the Open Skies Treaty. The United States Air Force has a requirement to execute missions under the Open Skies Treaty and utilizes two OC-135B aircraft as the observation aircraft. All roles and responsibilities are called out in Presidential Policy Directive 15, "Implementation of the Treaty on Open Skies, Mar 1, 2012. The OC-135B fleet has experienced decreasing mission reliability due to age, difficulties with out-of-production parts, and increased operating costs. Open Skies missions averaged a 65% mission completion rate over the ten-year period from 2007 to 2017 with leading non-mission capable drivers being the engines, fuel system, landing gear, generators, and airframe. Additionally, the OC-135B aircraft's 6,500km range is insufficient to fully execute mission options within the 96-hour in-country Treaty observation time constraint permitted under Treaty.

In February 2018 the Joint Capabilities Board reviewed and endorsed the Joint Doctrine, Organization, Training, materiel, Leadership and Education, Personnel, Facilities, and Policy Change Recommendation which updated platform requirements for Open Skies Treaty aircraft and recommended moving the capability onto a small-airliner class aircraft and existing materiel solutions. The Joint Capabilities Board revised thirteen requirements to represent the full range of capability necessary for optimized support to Treaty missions and endorsed the Air Force's efforts to determine and pursue the best method for procuring an existing aircraft for platform recapitalization to include commercial-off-the-shelf solutions.

An Open Skies System consist of the missionized aircraft (Digital Visual Imaging System sensor suite, flight deck avionics, and crew workstations) and Digital Ground Processing Station.

The budget supports modification and Treaty Certification of one commercial-off-the-shelf, small airliner class OC-135B replacement aircraft. The total program includes procurement of two commercial-derivative aircraft and Digital Visual Imaging System kits, design and development for mission system integration (structural design, interphone communications systems, flight deck avionics, and Digital Visual Imaging System hardware), test, and Federal Aviation Administration and Open Skies Treaty certification activities over a planned 48-month period. Additionally, the complete effort establishes pre-operational support for aircraft, mission systems and Digital Ground Processing Station. In FY19, the Air Force finalized the acquisition strategy, stood up the program office, conducted market research, began Request for Proposal development and pre-solicitation activities. In FY20, the program will complete competitive source selection, award a contract, and begin preliminary design activities.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 01: Combat Aircraft / BSA 4: Other Combat Aircraft		P-1 Line Item Number / Title: C135B0 / C-135B
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305145F	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>The Air Force Milestone Decision Authority approved the Open Skies Treaty Aircraft Recapitalization Materiel Development Decision (MDD) and revised Acquisition Strategy on 19 December 2019. The program will award two contracts for aircraft purchase and integration with embedded services for Contractor Logistics Support and Engineering Services. The program will utilize Full and Open Competition under Part 12 and Part 14 of the Federal Acquisition Regulation. The program will procure aircraft capable of achieving Open Skies Treaty Missions, integrate new treaty certified commercial-off-the-shelf Digital Visual Imaging Systems, and perform required Developmental Test, Operational Test, and Treaty Certification Data Gathering. The program will establish Pre-operational Support for aircraft, mission systems and the Digital Ground Processing Station necessary to deliver an aircraft, ready for Treaty Certification, by 2024. The program provides for Engineering Services necessary to support the Treaty Certification process. Contractor Logistics Support elements include worldwide supply chain management, establishment of a Contractor Managed Base Supply, program management, depot maintenance, training services, field support, and engineering services for the aircraft, engines, and mission systems. The program will issue the Request for Proposals in April 2020 and award the contract by September 2020.</p> <p>The OC-135B fleet has experienced decreasing mission reliability due to age, difficulties with out-of-production parts, and increased operating costs. Open Skies missions averaged a 65% mission completion rate over the ten-year period from 2007 to 2017 with leading non-mission capable drivers being the engines, fuel system, landing gear, generators, and airframe. Additionally, the OC-135B aircraft's 6,500 km range is insufficient to fully execute mission options within the time constraints of the 96-hour in-country Treaty observation time constraint permitted under Treaty. The Department of Defense, motivated by operational limitations of the OC-135B experienced during Open Skies missions combined with declining mission capability, prompted program officials to request a Capabilities-Based Assessment in July 2015 to study aircraft issues. The effort which completed in June 2016 indicated that key requirements within the 1992 Open Skies Operational Requirements Document were no longer current, and that the OC-135B had known capability performance gaps in range and mission completion.</p> <p>In October 2016, the Air Force secured permission to develop a Doctrine, Organization, Training, materiel, Leadership and Education, Personnel, Facilities and Policy Change Recommendation for the Open Skies Treaty Aircraft. The process used a multi-disciplinary High Performance Team to create and validate a series of required capabilities for an Open Skies aircraft, evaluate aircraft that could satisfy the required capabilities, and then consider each of the Doctrine, Organization, Training, materiel, Leadership and Education, Personnel, Facilities and Policy elements as part of a recommended solution. The effort accomplished two main purposes. First, it updated operational requirements and replaced the 1992 Operational Requirements Document to reflect both operational experience and expected Open Skies program needs for the foreseeable future. Second, it recommend an Air Force solution that best satisfied required capabilities within existing materiel solutions. The Joint Capabilities Board adopted the Air Force recommendation directed acquisition of two small airliner class aircraft for the Open Skies Treaty mission to be acquired in a method consistent with the Federal Acquisition Regulation and other applicable guidance, training using existing contractor training facilities, equipment, and curriculum, and a maintenance concept with military personnel performing unit-level maintenance actions with contractor support for parts supply, and supply chain management, performed under a low utilization maintenance program.</p> <p>Funding for this exhibit contained in PE 0305145F</p>		
<p>Justification: No FY 2021 funding requested.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (Units in Each)	52	15	12	15	-	15	12	12	15	15	27	175
Gross/Weapon System Cost (\$ in Millions)	8,652.156	2,290.932	2,139.705	2,850.151	-	2,850.151	2,249.778	2,401.584	2,962.308	2,837.685	5,801.742	32,186.041
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	8,652.156	2,290.932	2,139.705	2,850.151	-	2,850.151	2,249.778	2,401.584	2,962.308	2,837.685	5,801.742	32,186.041
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8,652.156	2,290.932	2,139.705	2,850.151	-	2,850.151	2,249.778	2,401.584	2,962.308	2,837.685	5,801.742	32,186.041
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	768.944	231.457	-	194.189	-	194.189	230.095	216.312	239.170	243.542	563.900	2,687.609
Flyaway Unit Cost (\$ in Millions)	150.151	147.856	163.806	158.554	-	158.554	167.187	178.247	182.860	174.760	195.004	166.539
Gross/Weapon System Unit Cost (\$ in Millions)	166.388	152.729	178.309	190.010	-	190.010	187.482	200.132	197.487	189.179	214.879	183.920

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 late initial production (LRIP). The first 5 lots are on contract totaling 67 aircraft. The first DD250 was signed on 10 Jan 2019, and the first delivery to McConnell AFB occurred on 25 Jan 2019. Initial sustainment efforts will be 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 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), and Part-Task Trainers (PTTs) 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 four ATS production options were exercised on 19 Aug 2015, 31 May 2017, 30 Apr 2018 and 31 Mar 2019.

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"

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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		
<p>Augmented Hardware Training Devices (AHTDs), PTTs, Interactive Multimedia Instruction (IMI), and emerging technologies to meet validated Air Mobility Command (AMC) maintenance training requirements. A MTS initial production option (classrooms) was exercised on 15 Jun 2017 in support of ready for training dates. 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. A Dec 2017 USD(AT&L) Acquisition Decision Memorandum expanded LRIP to include Lot 5. 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 FY2017 funding procured LAIRCM for Lot 3 and Lot 4 aircraft. FY 2020 funding provided for the procurement of LAIRCM in time to support future year aircraft production.</p> <p>In May 2016, the program announced a delay to aircraft deliveries and issued a Program Deviation Report declaring an Acquisition Program Baseline (APB) schedule breach. The primary causes of the delays were certification and receipt of fully-conformed hardware for the Wing Aerial Refueling Pods (WARPs) and Centerline Drogue System (CDS), which are the systems used to refuel probe-and-drogue receiver aircraft. Additionally, Boeing needed more time to incorporate design changes into the production aircraft. The KC-46 program is now operating to an updated schedule, referred to as KC-46 Rebaseline-0900 (KCR-0900). This re-baseline, with updated aircraft delivery dates, was incorporated into the contract via formal modification in Dec 2018. The first DD250 was signed on 10 Jan 2019, and the first delivery to McConnell AFB occurred on 25 Jan 2019. The Air Force will continue to support Boeing's efforts to execute the program.</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&E) completed in the first quarter of FY 2019 with the use of LRIP aircraft. Initial Operational Test and Evaluation (IOT&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 (FY2020) is contained in PE 0401897F.</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 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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		52 / 8,652.156	15 / 2,290.932	12 / 2,139.705	15 / 2,850.151	- / -	15 / 2,850.151
P-40	Total Gross/Weapon System Cost				52 / 8,652.156	15 / 2,290.932	12 / 2,139.705	15 / 2,850.151	- / -	15 / 2,850.151

*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 2021 budget supports the procurement of 15 KC-46A aircraft along with other necessary associated expenses to deliver, sustain, and maintain the Lot 7 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 2021 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 2021 funding. The FY 2021 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 2021 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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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
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

ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (<i>Units in Each</i>)		52	15	12	15	-	15
Gross/Weapon System Cost (<i>\$ in Millions</i>)		8,652.156	2,290.932	2,139.705	2,850.151	-	2,850.151
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)		8,652.156	2,290.932	2,139.705	2,850.151	-	2,850.151
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)		8,652.156	2,290.932	2,139.705	2,850.151	-	2,850.151
<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>)		768.944	231.457	0.000	194.189	-	194.189
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)		166.388	152.729	178.309	190.010	-	190.010

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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																		
Non Recurring Cost																		
Airframe ^(†)	144.477	52	7,512.828	145.990	15	2,189.846	158.499	12	1,901.985	154.047	15	2,310.700	-	-	-	154.047	15	2,310.700
AME Wing Aerial Refueling Pod (WARP) kits	5.343	20	106.857	5.599	5	27.993	7.769	5	38.845	8.002	5	40.010	-	-	-	8.002	5	40.010
GFE (LAIRCM)	2.379	78	185.547	-	-	0.000	2.057	9	18.517	2.119	12	25.429	-	-	-	2.119	12	25.429
AME (Other)	-	-	2.621	-	-	0.000	-	-	6.328	-	-	2.173	-	-	-	-	-	2.173
Boom Telescope Actuator	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>7,807.853</i>	-	-	<i>2,217.839</i>	-	-	<i>1,965.675</i>	-	-	<i>2,378.312</i>	-	-	-	-	-	<i>2,378.312</i>
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	<i>7,807.853</i>	-	-	<i>2,217.839</i>	-	-	<i>1,965.675</i>	-	-	<i>2,378.312</i>	-	-	-	-	-	<i>2,378.312</i>
Support - Support End Item Cost																		
Init. Spares	-	-	168.687	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Aircrew Training Systems (ATS)	-	-	168.899	-	-	0.132	-	-	0.069	-	-	35.198	-	-	-	-	-	35.198
Maintenance Training Systems (MTS)	-	-	1.733	-	-	39.260	-	-	0.739	-	-	4.702	-	-	-	-	-	4.702
Support Equipment	-	-	245.632	-	-	0.595	-	-	28.573	-	-	61.580	-	-	-	-	-	61.580
Operational Site Activation	-	-	0.792	-	-	0.017	-	-	5.435	-	-	8.949	-	-	-	-	-	8.949
Depot Stand-Up	-	-	50.267	-	-	0.812	-	-	11.463	-	-	212.723	-	-	-	-	-	212.723

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Exhibit P-5, Cost Analysis: PB 2021 Air Force												Date: February 2020					
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					
ID Code (A=Service Ready, B=Not Service Ready) : B												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Interim Contractor Support	-	-	171.495	-	-	1.491	-	-	90.643	-	-	110.162	-	-	-	-	-	110.162
Direct Mission Support	-	-	15.662	-	-	3.478	-	-	4.433	-	-	4.465	-	-	-	-	-	4.465
PMA - Contractor Services	-	-	15.741	-	-	13.949	-	-	17.358	-	-	21.462	-	-	-	-	-	21.462
PMA - Other Government Costs	-	-	5.395	-	-	13.359	-	-	8.935	-	-	12.598	-	-	-	-	-	12.598
Aeromedical Evacuation Cargo Compartment Trainer	-	-	0.000	-	-	0.000	-	-	6.382	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	844.303	-	-	73.093	-	-	174.030	-	-	471.839	-	-	-	-	-	471.839
Gross/Weapon System Cost	166.388	52	8,652.156	152.729	15	2,290.932	178.309	12	2,139.705	190.010	15	2,850.151	-	-	-	190.010	15	2,850.151

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 standup efforts increased significantly in FY2021 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 FY2017 funds. ICS funding requirements return to normal in FY 2020 with ICS Period 4. ICS Period 5 will be funded with FY2021 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 (LAIRCM & AME) have been broken out to show a lower level of detail to accurately reflect the acquisition strategy and execution of these requirements. It also shows the incorporation of the Boom Telescope Actuator Engineering Change Proposal.

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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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

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
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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 ^(†)		2015	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Aug 2016	Jan 2019	7	175.504	Y		Feb 2016
Airframe ^(†)		2016	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Aug 2016	Jan 2019	12	170.733	Y		Feb 2016
Airframe ^(†)		2017	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Jan 2017	Jan 2019	15	147.728	Y		Nov 2015
Airframe ^(†)		2018	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Sep 2018	Aug 2019	18	144.129	Y		Oct 2016
Airframe ^(†)		2019	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Sep 2019	Dec 2020	15	145.990	Y		Dec 2017
Airframe ^(†)		2020	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	May 2020	Dec 2021	12	158.499	Y		Oct 2018
Airframe ^(†)		2021	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Jan 2021	Dec 2022	15	154.047	Y		Oct 2018

^(†) 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 2021 Air Force **Date:** February 2020

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
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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	7	0	7																								7	
1		2016	AF	12	0	12																								12	
1		2017	AF	15	0	15																								15	
1		2018	AF	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	

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

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 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			
Airframe																																	
1		2015	AF	7	0	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6				
1		2016	AF	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9				
1		2017	AF	15	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	1	3	-	3	-	1				
1		2018	AF	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		
							O C T	N O V	D E C	J A N	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 2021 Air Force **Date:** February 2020

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 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	7	1	6	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	3		
1		2016	AF	12	3	9	-	-	1	2	1	-	1	1	-	-	-	1	1											0			
1		2017	AF	15	14	1	-	-	-	-	-	1																		0			
1		2018	AF	18	3	15	3	2	1	1	1	-	2	1	1	1	1													0			
1		2019	AF	15	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	1	2	1	1	1	2	1	2			
1		2020	AF	12	0	12							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12			
1		2021	AF	15	0	15															A	-	-	-	-	-	-	-	-	15			

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

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	7	4	3	-	-	1	-	1	-	-	1															0				
1		2016	AF	12	12	0																							0				
1		2017	AF	15	15	0																							0				
1		2018	AF	18	18	0																							0				
1		2019	AF	15	13	2	1	1																					0				
1		2020	AF	12	0	12	-	-	1	1	1	1	1	1	1	1	1	1	1	1									0				
1		2021	AF	15	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	1	2	1	1	1	1	3				
							O C T	N O V	D E C	J A N	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 2021 Air Force **Date:** February 2020

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
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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	7	7	0																							0		
1		2016	AF	12	12	0																							0		
1		2017	AF	15	15	0																							0		
1		2018	AF	18	18	0																							0		
1		2019	AF	15	15	0																							0		
1		2020	AF	12	12	0																							0		
1		2021	AF	15	12	3		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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Exhibit P-21, Production Schedule: PB 2021 Air Force		Date: February 2020
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

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2021	1-8-5 For 2021	MAX For 2021	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	23	27

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).

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	162	8	4	-	-	-	-	-	-	-	-	174
Gross/Weapon System Cost (<i>\$ in Millions</i>)	14,570.659	674.100	742.156	37.131	-	37.131	8.585	13.131	8.895	0.000	232.875	16,287.532
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	0.000	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	14,570.659	674.100	742.156	37.131	-	37.131	8.585	13.131	8.895	0.000	232.875	16,287.532
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	0.000	0.000
Total Obligation Authority (<i>\$ in Millions</i>)	14,570.659	674.100	742.156	37.131	-	37.131	8.585	13.131	8.895	0.000	232.875	16,287.532

(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>)	69.844	75.919	83.557	-	-	-	-	-	-	-	-	70.733
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	89.942	84.263	185.539	-	-	-	-	-	-	-	-	93.607

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 have been procured with National Guard, Reserve Equipment Account (NGREA) funds.

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

Program 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 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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	P-5a, P-21	A		162 / 14,570.659	8 / 674.100	4 / 742.156	- / 37.131	- / -	- / 37.131
P-40	Total Gross/Weapon System Cost				162 / 14,570.659	8 / 674.100	4 / 742.156	- / 37.131	- / -	- / 37.131

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

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

Justification:
 FY21 funding provides logistics support services, engineering support services, program management support, Diminishing Manufacturing Sources (DMS) support, and a Weapon System Trainer (WST).

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130J0 / C-130J	Item Number / Title [DODIC]: C-130J

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	162	8	4	-	-	-
Gross/Weapon System Cost (\$ in Millions)	14,570.659	674.100	742.156	37.131	-	37.131
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	14,570.659	674.100	742.156	37.131	-	37.131
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	14,570.659	674.100	742.156	37.131	-	37.131

(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)	89.942	84.263	185.539	-	-	-

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 ^(†)	67.829	162	10,988.300	73.925	8	591.400	162.846	4	651.384	-	-	-	-	-	-	-	-	-
Other Government Furnished Equipment	-	-	326.450	-	-	15.955	-	-	17.072	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>11,314.750</i>	<i>-</i>	<i>-</i>	<i>607.355</i>	<i>-</i>	<i>-</i>	<i>668.456</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	<i>-</i>	<i>-</i>	<i>11,314.750</i>	<i>-</i>	<i>-</i>	<i>607.355</i>	<i>-</i>	<i>-</i>	<i>668.456</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

Support - Support End Item Cost																		
Airframe Peculiar Ground Support Equipment (PGSE)	-	-	23.872	-	-	1.430	-	-	-	-	-	0.000	-	-	-	-	-	0.000
Peculiar Training Equipment	-	-	275.555	-	-	3.160	-	-	1.200	-	-	28.749	-	-	-	-	-	28.749
Publications/Technical Data	-	-	65.618	-	-	0.827	-	-	0.621	-	-	1.211	-	-	-	-	-	1.211
Diminishing Manufacturing Sources (DMS)	-	-	238.346	-	-	15.706	-	-	13.812	-	-	1.709	-	-	-	-	-	1.709
Interim Contractor Support (ICS)	-	-	103.904	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Interim Supply Support (ISS) (Spares)	-	-	908.151	-	-	20.871	-	-	30.455	-	-	-	-	-	-	-	-	-
Data	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Post Delivery Support	-	-	162.154	-	-	10.445	-	-	13.233	-	-	2.032	-	-	-	-	-	2.032

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Exhibit P-5, Cost Analysis: PB 2021 Air Force												Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3						P-1 Line Item Number / Title: C130J0 / C-130J						Item Number / Title [DODIC]: C-130J					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:							

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Organic Depot Support	-	-	27.732	-	-	3.701	-	-	4.700	-	-	-	-	-	-	-	-	-
PMA Contractor Services	-	-	121.391	-	-	6.729	-	-	6.049	-	-	2.200	-	-	-	-	-	2.200
Other	-	-	1,329.186	-	-	3.876	-	-	3.630	-	-	1.230	-	-	-	-	-	1.230
PMA Government Services	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	3,255.909	-	-	66.745	-	-	73.700	-	-	37.131	-	-	-	-	-	37.131
Gross/Weapon System Cost	89.942	162	14,570.659	84.263	8	674.100	185.539	4	742.156	-	-	37.131	-	-	-	-	-	37.131

Remarks:

Budgeted Quantities should be 8 for FY2020.

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

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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130J0 / C-130J	Item Number / Title [DODIC]: C-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 ^(†)		2016	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Mar 2016	Oct 2017	14	64.797	Y		Oct 2012
Airframe ^(†)		2017	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2016	Feb 2019	5	71.400	Y		Oct 2012
Airframe ^(†)		2018	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Jul 2018	Dec 2020	6	78.165	Y		May 2018
Airframe ^(†)		2019	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2018	Oct 2021	8	73.925	Y		Jul 2018
Airframe ^(†)		2020	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Aug 2020	May 2023	4	162.846	Y		Mar 2020

^(†) indicates the presence of a P-21

Remarks:
Budgeted Quantities should be 8 for FY2020

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130J0 / C-130J	Item Number / Title [DODIC]: C-130J
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												B A L A N C E	
O C C O	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																															
Prior Years Deliveries: 137																															
1	2016	AF ⁽¹⁾		14	0	14																							14		
1	2017	AF		5	0	5																							5		
1	2018	AF		6	0	6																							6		
1	2019	AF		8	0	8																							8		
1	2020	AF		4	0	4																							4		

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3 **P-1 Line Item Number / Title:** C130J0 / C-130J **Item Number / Title [DODIC]:** C-130J

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																																	
Prior Years Deliveries: 137																																	
1	2016	AF ⁽¹⁾	14	0	14	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
1	2017	AF	5	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	3				
1	2018	AF	6	0	6									A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6				
1	2019	AF	8	0	8														A	-	-	-	-	-	-	-	-	-	8				
1	2020	AF	4	0	4																								4				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J 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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3 **P-1 Line Item Number / Title:** C130J0 / C-130J **Item Number / Title [DODIC]:** C-130J

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020													Fiscal Year 2021													BALANCE	
O C C #	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																																	
Prior Years Deliveries: 137																																	
1		2016	AF ⁽¹⁾	14	12	2	1	1																							0		
1		2017	AF	5	2	3	-	-	-	-	-	-	-	-	1	-	1	-	1												0		
1		2018	AF	6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	1	-	1			0			
1		2019	AF	8	0	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8			
1		2020	AF	4	0	4																								4			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J 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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3 **P-1 Line Item Number / Title:** C130J0 / C-130J **Item Number / Title [DODIC]:** C-130J

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023												BALANCE	
O C C #	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																																	
Prior Years Deliveries: 137																																	
1		2016	AF ⁽¹⁾	14	14	0																								0			
1		2017	AF	5	5	0																								0			
1		2018	AF	6	6	0																								0			
1		2019	AF	8	0	8	1	1	-	1	1	-	1	-	1	1	-	1												0			
1		2020	AF	4	0	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	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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Exhibit P-21, Production Schedule: PB 2021 Air Force	Date: February 2020
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130J0 / C-130J	Item Number / Title [DODIC]: C-130J
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2021	1-8-5 For 2021	MAX For 2021	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	11	33	44

Remarks:
 Minimum sustaining rate does not apply as this rate includes all C-130J customers. The complete C-130J schedule (all customers) is located in the MC-130J P-21
 Budgeted Quantities should be 8 for FY2020.

"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 2018 loaded in the month of first delivery.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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:** C130JH / HC-130J

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207230F, 0207237F, 0401132F

Line Item MDAP/MAIS Code: 257

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	29	2	-	-	-	-	-	-	-	-	-	31
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,575.088	183.837	0.000	0.000	0.000	0.000	0.000	0.000	5.035	0.000	0.000	2,763.960
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	0.000	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,575.088	183.837	0.000	0.000	0.000	0.000	0.000	0.000	5.035	0.000	0.000	2,763.960
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	0.000	0.000
Total Obligation Authority (<i>\$ in Millions</i>)	2,575.088	183.837	0.000	0.000	0.000	0.000	0.000	0.000	5.035	0.000	0.000	2,763.960
<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>)	74.769	85.757	-	-	-	-	-	-	-	-	-	75.478
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	88.796	91.919	-	-	-	-	-	-	-	-	-	89.160

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 production programs are being budgeted separately for improved visibility. Eight HC-130Js were procured under the combined HC/MC-130 Recap program (a different budget line). In FY19, Air Force increased the total HC-130 Recap program total by one, for a total buy of 39 HC-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 agreement between ACC, AFSOC, AFR, and ANG. Future changes may be required.

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, 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. 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.

Funding for this exhibit is contained in PE 0207224F.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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:** C130JH / HC-130J

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207230F, 0207237F, 0401132F

Line Item MDAP/MAIS Code: 257

Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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	HC-130J	P-5a, P-21	A		29 / 2,575.088	2 / 183.837	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				29 / 2,575.088	2 / 183.837	- / 0.000	- / 0.000	- / 0.000	- / 0.000

*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 Budget Year FY 2021 funding requested.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130JH / HC-130J	Item Number / Title [DODIC]: HC-130J

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	29	2	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,575.088	183.837	0.000	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,575.088	183.837	0.000	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,575.088	183.837	0.000	0.000	0.000	0.000

(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)	88.796	91.919	-	-	-	-

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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/Engines/Accessories ^(†)	70.827	29	2,053.989	80.757	2	161.514	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Government Furnished Equipment (GFE)	-	-	63.220	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-
LAIRCM Group B	-	-	51.090	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>2,168.299</i>	-	-	<i>171.514</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	<i>2,168.299</i>	-	-	<i>171.514</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>

Support - Support End Item Cost

Airframe Peculiar Ground Support Equipment (PGSE)	-	-	18.661	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Peculiar Training Equipment	-	-	76.480	-	-	0.120	-	-	-	-	-	-	-	-	-	-	-	-
Publications/Technical Data	-	-	24.855	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Diminishing Manufacturing Sources (DMS)	-	-	43.359	-	-	4.215	-	-	-	-	-	-	-	-	-	-	-	-
Interim Contractor Support (ICS)	-	-	22.323	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Post Delivery Support	-	-	21.674	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2021 Air Force												Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3						P-1 Line Item Number / Title: C130JH / HC-130J						Item Number / Title [DODIC]: HC-130J					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Interim Supply Support (ISS)	-	-	171.217	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Data	-	-	9.257	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
PMA Contractor Services	-	-	9.872	-	-	3.036	-	-	-	-	-	-	-	-	-	-	-	-
PMA Government Costs	-	-	2.333	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-
Other Government Cost	-	-	6.758	-	-	3.852	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	406.789	-	-	12.323	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	88.796	29	2,575.088	91.919	2	183.837	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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

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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130JH / HC-130J	Item Number / Title [DODIC]: HC-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 ^(†)		2016	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Mar 2016	Oct 2018	6	71.538	Y		Oct 2012
Airframe/Engines/Accessories ^(†)		2017	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2016	May 2019	4	72.261	Y		Oct 2012
Airframe/Engines/Accessories ^(†)		2018	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Aug 2018	Jul 2020	3	86.361	Y		Mar 2016
Airframe/Engines/Accessories ^(†)		2019	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Sep 2019	Oct 2022	2	80.757	Y		Mar 2018

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3 **P-1 Line Item Number / Title:** C130JH / HC-130J **Item Number / Title [DODIC]:** HC-130J

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: 16																																						
1		2016	AF	6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	-	-	1	-	-	-	-	-	1					
1		2017	AF	4	0	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-					
1		2018	AF	3	0	3														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-
1		2019	AF	2	0	2																											A	-				

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3 **P-1 Line Item Number / Title:** C130JH / HC-130J **Item Number / Title [DODIC]:** HC-130J

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/Engines/Accessories																																	
Prior Years Deliveries: 16																																	
1	2016	AF		6	5	1	-	-	-	-	-	-	-	-	1															0			
1	2017	AF		4	2	2	-	-	-	-	-	-	1	-	-	-	-	1												0			
1	2018	AF		3	0	3	-	-	-	-	-	-	-	-	-	1	1	-	-	1										0			
1	2019	AF		2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2				

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3 **P-1 Line Item Number / Title:** C130JH / HC-130J **Item Number / Title [DODIC]:** HC-130J

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023														BALANCE	
O C C #	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: 16																																			
1		2016	AF	6	6	0																							0						
1		2017	AF	4	4	0																							0						
1		2018	AF	3	3	0																							0						
1		2019	AF	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	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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Exhibit P-21, Production Schedule: PB 2021 Air Force	Date: February 2020
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130JH / HC-130J	Item Number / Title [DODIC]: HC-130J
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2021	1-8-5 For 2021	MAX For 2021	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	12	37	49

Remarks:
This schedule is only for USAF HC-130Js. What appears to be holes in the production line are actually other C-130J variants. The complete C-130J schedule is located in the MC-130J P-21 schedule.

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

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	51	6	9	4	-	4	4	-	-	-	-	74
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,729.434	747.879	1,039.607	418.807	-	418.807	445.167	134.294	27.577	44.305	20.000	7,607.070
Less PY Advance Procurement (<i>\$ in Millions</i>)	462.122	30.000	182.000	56.000	-	56.000	55.987	14.000	0.000	0.000	-	800.109
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,267.312	717.879	857.607	362.807	-	362.807	389.180	120.294	27.577	44.305	20.000	6,806.961
Plus CY Advance Procurement (<i>\$ in Millions</i>)	492.122	218.000	40.000	39.987	-	39.987	10.000	0.000	0.000	0.000	-	800.109
Total Obligation Authority (<i>\$ in Millions</i>)	4,759.434	935.879	897.607	402.794	-	402.794	399.180	120.294	27.577	44.305	20.000	7,607.070

(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>)	75.679	88.176	91.902	88.710	-	88.710	89.500	-	-	-	-	80.948
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	92.734	124.647	115.512	104.702	-	104.702	111.292	-	-	-	-	102.798

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 agreement between ACC, AFSOC, AFR, and ANG. Future changes may be required.

This funding request incorporates a Multiyear Procurement (MYP) for FY19 thru FY22 which is part of the larger C-130J buy including Air Force, FMS, Coast Guard, Navy, & USMC. In support of the MYP, \$88M of Economic Order Quantity (EOQ) funding is included in the FY19 Advance Procurement Request for FY20-FY23.

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 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, 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. 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.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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		
<p>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.</p> <p>Funding for this exhibit is contained in PE 0207230F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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		51 / 4,729.434	6 / 747.879	9 / 1,039.607	4 / 418.807	- / -	4 / 418.807
P-40	Total Gross/Weapon System Cost				51 / 4,729.434	6 / 747.879	9 / 1,039.607	4 / 418.807	- / -	4 / 418.807

*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 2021 budget supports the procurement of 4 MC-130J aircraft and associated support requirements.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130JM / MC-130J	Item Number / Title [DODIC]: MC-130J

ID Code (A=Service Ready, B=Not Service Ready) : A			MDAP/MAIS Code:				
Resource Summary		Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (<i>Units in Each</i>)		51	6	9	4	-	4
Gross/Weapon System Cost (<i>\$ in Millions</i>)		4,729.434	747.879	1,039.607	418.807	-	418.807
Less PY Advance Procurement (<i>\$ in Millions</i>)		462.122	30.000	182.000	56.000	-	56.000
Net Procurement (P-1) (<i>\$ in Millions</i>)		4,267.312	717.879	857.607	362.807	-	362.807
Plus CY Advance Procurement (<i>\$ in Millions</i>)		492.122	218.000	40.000	39.987	-	39.987
Total Obligation Authority (<i>\$ in Millions</i>)		4,759.434	935.879	897.607	402.794	-	402.794
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)		92.734	124.647	115.512	104.702	-	104.702

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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/Engines/ Accessories ^(†)	70.988	51	3,620.385	82.384	6	494.301	89.458	9	805.122	83.454	4	333.814	-	-	-	83.454	4	333.814
Government Furnished Equipment (GFE)	-	-	127.831	-	-	10.254	-	-	10.000	-	-	10.500	-	-	-	-	-	10.500
LAIRCM Group B	-	-	111.431	-	-	24.500	-	-	12.000	-	-	10.524	-	-	-	-	-	10.524
<i>Subtotal: Recurring Cost</i>	-	-	<i>3,859.647</i>	-	-	<i>529.055</i>	-	-	<i>827.122</i>	-	-	<i>354.838</i>	-	-	-	-	-	<i>354.838</i>
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	<i>3,859.647</i>	-	-	<i>529.055</i>	-	-	<i>827.122</i>	-	-	<i>354.838</i>	-	-	-	-	-	<i>354.838</i>
Support - Support End Item Cost																		
Airframe Peculiar Ground Support Equipment (PGSE)	-	-	31.326	-	-	13.164	-	-	15.797	-	-	4.416	-	-	-	-	-	4.416
Peculiar Training Equipment	-	-	276.774	-	-	67.167	-	-	62.126	-	-	11.962	-	-	-	-	-	11.962
Publications/Technical Data	-	-	26.971	-	-	24.829	-	-	12.950	-	-	1.200	-	-	-	-	-	1.200
Diminishing Manufacturing Sources	-	-	57.971	-	-	16.001	-	-	25.140	-	-	8.000	-	-	-	-	-	8.000
Interim Contractor Support (ICS)	-	-	43.613	-	-	2.000	-	-	4.005	-	-	9.600	-	-	-	-	-	9.600
Interim Supply Support (ISS)	-	-	381.059	-	-	31.270	-	-	65.410	-	-	5.347	-	-	-	-	-	5.347

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130JM / MC-130J	Item Number / Title [DODIC]: MC-130J
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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	-	-	25.141	-	-	7.500	-	-	10.500	-	-	8.712	-	-	-	-	-	8.712
PMA Contractor Services	-	-	14.529	-	-	5.000	-	-	4.057	-	-	4.800	-	-	-	-	-	4.800
PMA Government Services	-	-	2.968	-	-	2.000	-	-	2.000	-	-	2.468	-	-	-	-	-	2.468
Other Government Costs	-	-	9.435	-	-	49.893	-	-	10.500	-	-	7.464	-	-	-	-	-	7.464
<i>Subtotal: Support - Support End Item Cost</i>	-	-	869.787	-	-	218.824	-	-	212.485	-	-	63.969	-	-	-	-	-	63.969
Gross/Weapon System Cost	92.734	51	4,729.434	124.647	6	747.879	115.512	9	1,039.607	104.702	4	418.807	-	-	-	104.702	4	418.807

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

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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130JM / MC-130J	Item Number / Title [DODIC]: 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 ^(†)		2016	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Mar 2016	Nov 2017	8	71.160	Y		Oct 2012
Airframe/Engines/Accessories ^(†)		2017	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2016	Apr 2019	6	73.654	Y		Oct 2012
Airframe/Engines/Accessories ^(†)		2018	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2017	Oct 2019	11	82.736	Y		Oct 2012
Airframe/Engines/Accessories ^(†)		2019	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2018	Jul 2021	6	82.384	Y		Mar 2018
Airframe/Engines/Accessories ^(†)		2020	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2019	Jan 2022	9	89.458	Y		Mar 2018
Airframe/Engines/Accessories ^(†)		2021	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2020	Apr 2023	4	83.454	Y		Mar 2018
Advance Procurement												
Airframe/Engines/Accessories		2021	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2020	Apr 2023	4	9.997	Y		Mar 2018

^(†) 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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130JM / MC-130J	Item Number / Title [DODIC]: MC-130J
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016														Fiscal Year 2017														BALANCE	
O C O	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/Engines/Accessories																																			
Prior Years Deliveries: 26																																			
1	2016	AF ⁽¹⁾		8	0	8																							8						
1	2016	CG ^(‡)		1	0	1																							1						
1	2016	FMS ^{(‡)(2)}		12	0	12																							12						
1	2016	MC ^{(‡)(3)}		2	0	2																							2						
1	2016	OTH ^{(‡)(4)}		3	0	3																							3						
1	2016	Total		26	0	26																							26						
1	2017	AF		6	0	6																							6						
1	2017	CG ^(‡)		1	0	1																							1						
1	2017	HC/MC ^(‡)		8	0	8																							8						
1	2017	MC ^(‡)		2	0	2																							2						
1	2017	Total		17	0	17																							17						
1	2018	AF		11	0	11																							11						
1	2018	CG ^(‡)		1	0	1																							1						
1	2018	HC/MC ^(‡)		9	0	9																							9						
1	2018	MC ^(‡)		6	0	6																							6						
1	2018	Total		27	0	27																							27						
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 ^(‡)		2	0	2																							2						
1	2019	Total		19	0	19																							19						
1	2020	AF		9	0	9																							9						
1	2020	CG ^(‡)		2	0	2																							2						
1	2020	HC/MC ^(‡)		4	0	4																							4						
1	2020	MC ^(‡)		3	0	3																							3						
1	2020	Total		18	0	18																							18						
1	2021	AF		4	0	4																							4						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J 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 2021 Air Force **Date:** February 2020

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 (Units in Each)					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: 26																																	
1	2016	AF ⁽¹⁾		8	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2016	CG ^(‡)		1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2016	FMS ^{(‡)(2)}		12	4	8	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6			
1	2016	MC ^{(‡)(3)}		2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2016	OTH ^{(‡)(4)}		3	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2016	Total		26	18	8	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6			
1	2017	AF		6	5	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2017	CG ^(‡)		1	0	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2017	HC/MC ^(‡)		8	4	4	-	-	-	-	-	1	-	1	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	0			
1	2017	MC ^(‡)		2	1	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2017	Total		17	10	7	-	-	-	-	-	1	-	2	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2018	AF		11	0	11	1	-	1	1	1	1	-	-	-	-	1	1	-	-	1	1	-	1	-	1	-	-	-	0			
1	2018	CG ^(‡)		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	0			
1	2018	HC/MC ^(‡)		9	0	9	-	-	-	-	-	-	-	-	1	1	-	-	1	1	1	-	1	1	1	-	1	-	-	0			
1	2018	MC ^(‡)		6	0	6	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1	-	-	-	-	0			
1	2018	Total		27	0	27	2	-	2	1	1	1	-	-	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	0			
1	2019	AF		6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	4			
1	2019	CG ^(‡)		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			
1	2019	HC/MC ^(‡)		10	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10			
1	2019	MC ^(‡)		2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0			
1	2019	Total		19	0	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	15			
1	2020	AF		9	0	9	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9			
1	2020	CG ^(‡)		2	0	2	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
1	2020	HC/MC ^(‡)		4	0	4	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4			
1	2020	MC ^(‡)		3	0	3	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3			
1	2020	Total		18	0	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18			
1	2021	AF		4	0	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J 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 2021 Air Force **Date:** February 2020

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 (Units in Each)					Fiscal Year 2022													Fiscal Year 2023													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Airframe/Engines/Accessories																																	
Prior Years Deliveries: 26																																	
1	2016	AF ⁽¹⁾		8	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	CG ^(‡)		1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	FMS ^{(‡)(2)}		12	6	6	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	2				
1	2016	MC ^{(‡)(3)}		2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	OTH ^{(‡)(4)}		3	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	Total		26	20	6	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	2				
1	2017	AF		6	6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	CG ^(‡)		1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	HC/MC ^(‡)		8	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	MC ^(‡)		2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	Total		17	17	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	AF		11	11	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	CG ^(‡)		1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	HC/MC ^(‡)		9	9	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	MC ^(‡)		6	6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	Total		27	27	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2019	AF		6	2	4	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-	0				
1	2019	CG ^(‡)		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	0				
1	2019	HC/MC ^(‡)		10	0	10	1	1	-	1	1	-	1	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	0				
1	2019	MC ^(‡)		2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2019	Total		19	4	15	2	1	-	1	1	-	1	1	-	1	1	1	1	1	1	1	-	-	-	-	-	0					
1	2020	AF		9	0	9	-	-	-	1	1	1	1	1	-	1	1	-	-	-	-	-	-	-	1	-	-	-	0				
1	2020	CG ^(‡)		2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2				
1	2020	HC/MC ^(‡)		4	0	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	0				
1	2020	MC ^(‡)		3	0	3	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	0				
1	2020	Total		18	0	18	-	1	-	1	1	1	1	1	-	1	1	-	1	1	-	1	-	1	1	-	1	2	2				
1	2021	AF		4	0	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130JM / MC-130J	Item Number / Title [DODIC]: MC-130J
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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: 26																																	
1	2016	AF ⁽¹⁾		8	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	CG ^(‡)		1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	FMS ^{(‡)(2)}		12	10	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	MC ^{(‡)(3)}		2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	OTH ^{(‡)(4)}		3	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	Total		26	24	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	AF		6	6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	CG ^(‡)		1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	HC/MC ^(‡)		8	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	MC ^(‡)		2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	Total		17	17	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	AF		11	11	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	CG ^(‡)		1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	HC/MC ^(‡)		9	9	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	MC ^(‡)		6	6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	Total		27	27	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
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 ^(‡)		2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2019	Total		19	19	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2020	AF		9	9	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2020	CG ^(‡)		2	0	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2020	HC/MC ^(‡)		4	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2020	MC ^(‡)		3	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2020	Total		18	16	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2021	AF		4	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 2021 Air Force **Date:** February 2020

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 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		
1	2021		CG (+)	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
1	2021		MC (+)	5	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2021		Total	11	5	6	2	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 2021 Air Force **Date:** February 2020

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 2026													Fiscal Year 2027													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Airframe/Engines/Accessories																																	
Prior Years Deliveries: 26																																	
	1	2016	AF ⁽¹⁾	8	8	0																							0				
	1	2016	CG ^(‡)	1	1	0																							0				
	1	2016	FMS ^{(‡)(2)}	12	12	0																							0				
	1	2016	MC ^{(‡)(3)}	2	2	0																							0				
	1	2016	OTH ^{(‡)(4)}	3	3	0																							0				
	1	2016	Total	26	26	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2017	AF	6	6	0																							0				
	1	2017	CG ^(‡)	1	1	0																							0				
	1	2017	HC/MC ^(‡)	8	8	0																							0				
	1	2017	MC ^(‡)	2	2	0																							0				
	1	2017	Total	17	17	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2018	AF	11	11	0																							0				
	1	2018	CG ^(‡)	1	1	0																							0				
	1	2018	HC/MC ^(‡)	9	9	0																							0				
	1	2018	MC ^(‡)	6	6	0																							0				
	1	2018	Total	27	27	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	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 ^(‡)	2	2	0																							0				
	1	2019	Total	19	19	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2020	AF	9	9	0																							0				
	1	2020	CG ^(‡)	2	2	0																							0				
	1	2020	HC/MC ^(‡)	4	4	0																							0				
	1	2020	MC ^(‡)	3	3	0																							0				
	1	2020	Total	18	18	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2021	AF	4	4	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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130JM / MC-130J	Item Number / Title [DODIC]: MC-130J
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2026												Fiscal Year 2027												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026												Calendar Year 2027												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1	2021	CG (+)		2	0	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
1	2021	MC (+)		5	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2021	Total		11	9	2	-	-	-	-	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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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3	P-1 Line Item Number / Title: C130JM / MC-130J	Item Number / Title [DODIC]: MC-130J
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2021	1-8-5 For 2021	MAX For 2021	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).

Footnotes:

- (1) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2018 loaded in the month of first delivery.
- (2) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2018 loaded in the month of first delivery.
- (3) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2018 loaded in the month of first delivery.
- (4) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2018 loaded in the month of first delivery.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	492.122	218.000	40.000	39.987	-	39.987	10.000	0.000	0.000	0.000	-	800.109
Net Procurement (P-1) (<i>\$ in Millions</i>)	492.122	218.000	40.000	39.987	-	39.987	10.000	0.000	0.000	0.000	-	800.109
Total Obligation Authority (<i>\$ in Millions</i>)	492.122	218.000	40.000	39.987	-	39.987	10.000	0.000	0.000	0.000	-	800.109

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 funding request incorporates a Multiyear Procurement (MYP) for FY19 thru FY22 which is part of the larger C-130J buy including Air Force, FMS, Coast Guard, Navy, & USMC. In support of the MYP, \$88M of Economic Order Quantity (EOQ) funding is included in the FY19 Advance Procurement 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 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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			51 / 492.122	6 / 218.000	9 / 40.000	4 / 39.987	- / -	4 / 39.987
P-40	Total Gross/Weapon System Cost			51 / 492.122	6 / 218.000	9 / 40.000	4 / 39.987	- / -	4 / 39.987

*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 FY21 budget supports advance procurement for four (4) FY22 MC-130J aircraft.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2021 Air Force					Date: February 2020		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3			P-1 Line Item Number / Title: C130JM / MC-130J			P-5 Number / Title: MC-130J	
First System (2021) Award Date: December 2019		First System (2021) Completion Date: December 2021			Interval Between Systems: 1 Months		
MC-130J		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2019 <i>(Each)</i>	FY 2020 <i>(Each)</i>	FY 2021 <i>(Each)</i>	
Quantity		12	51	6	9	4	
Cost Elements		When Required <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2019 <i>(\$ M)</i>	FY 2020 <i>(\$ M)</i>	FY 2021 <i>(\$ M)</i>	
CFE							
Airframe/Engines/Accessories ^(†)		12	492.122	130.000	40.000	39.987	
Total: CFE			492.122	130.000	40.000	39.987	
EOQ							
Airframe/Engines/Accessories		12	0.000	88.000	0.000	0.000	
Total: EOQ			0.000	88.000	0.000	0.000	
Total Advance Procurement/Obligation Authority			492.122	218.000	40.000	39.987	

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2021 Air Force						Date: February 2020	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3			P-1 Line Item Number / Title: C130JM / MC-130J			P-5 Number / Title: MC-130J	
FY 2021							
Cost Elements	QPA (Each)	Production Leadtime (Months)	Unit Cost (\$ M)	Contract Forecast Date	2021 Qty (Each)	For FY	Total Cost Request (\$ M)
CFE							
Airframe/Engines/Accessories ^(†)	-	12	9.997	Dec 2020	4		39.987
<i>Total: CFE</i>							39.987
EOQ							
Airframe/Engines/Accessories	-						0.000
<i>Total: EOQ</i>							0.000
Total Advance Procurement/Obligation Authority							39.987

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.

^(†) 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 2021 Air Force **Date:** February 2020

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 / UH-1N Replacement

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	8	-	8	8	8	15	15	24	78
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.626	0.000	0.000	194.016	-	194.016	279.604	339.501	520.883	527.781	890.400	2,753.811
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.626	0.000	0.000	194.016	-	194.016	279.604	339.501	520.883	527.781	890.400	2,753.811
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.626	0.000	0.000	194.016	-	194.016	279.604	339.501	520.883	527.781	890.400	2,753.811

(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	-	18.389	18.045	7.660	22.948	17.985	65.400	150.427
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	17.670	-	17.670	20.445	28.227	25.043	24.535	25.825	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	24.252	-	24.252	34.951	42.438	34.726	35.185	37.100	35.305

Description:

The MH-139 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-139 solution is expected to undergo an operational assessment in FY20 with operational test and evaluation beginning in FY21 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 2021 Air Force **Date:** February 2020

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 / UH-1N Replacement

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-5	UH-1N Replacement	P-5a, P-21	B		- / 1.626	- / 0.000	- / 0.000	8 / 194.016	- / -	8 / 194.016
P-40	Total Gross/Weapon System Cost				- / 1.626	- / 0.000	- / 0.000	8 / 194.016	- / -	8 / 194.016

*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.

 The program will procure the first low rate initial production lot of 8 aircraft in FY21 with associated initial spares, support equipment, site activation support, training, publications and technical data, and other program management administration activities.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 1	P-1 Line Item Number / Title: H0106O / UH-1N Replacement	Item Number / Title [DODIC]: UH-1N Replacement

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	-	-	-	8	-	8
Gross/Weapon System Cost (\$ in Millions)	1.626	0.000	0.000	194.016	-	194.016
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1.626	0.000	0.000	194.016	-	194.016
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1.626	0.000	0.000	194.016	-	194.016

(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	18.389	0.000	18.389
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	24.252	-	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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 ^(t)	-	-	0.000	-	-	0.000	-	-	0.000	15.799	8	126.390	-	-	-	15.799	8	126.390
Other Flyaway Costs	-	-	0.000	-	-	0.000	-	-	0.000	-	-	14.970	-	-	-	-	-	14.970
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>141.360</i>	-	-	-	-	-	<i>141.360</i>
<i>Subtotal: Flyaway - MH-139 Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>141.360</i>	-	-	-	-	-	<i>141.360</i>
Support - MH-139 Cost																		
Training	-	-	0.000	-	-	0.000	-	-	0.000	-	-	12.340	-	-	-	-	-	12.340
Data	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.902	-	-	-	-	-	2.902
Support Equipment	-	-	0.000	-	-	0.000	-	-	0.000	-	-	10.823	-	-	-	-	-	10.823
Site Activation Support	-	-	0.000	-	-	0.000	-	-	0.000	-	-	16.670	-	-	-	-	-	16.670
Other Government Costs	-	-	1.626	-	-	0.000	-	-	0.000	-	-	9.921	-	-	-	-	-	9.921
PMA Contract Services	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - MH-139 Cost</i>	-	-	<i>1.626</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>52.656</i>	-	-	-	-	-	<i>52.656</i>
Gross/Weapon System Cost	-	-	1.626	-	-	0.000	-	-	0.000	24.252	8	194.016	-	-	-	24.252	8	194.016

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

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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 1	P-1 Line Item Number / Title: H0106O / UH-1N Replacement	Item Number / Title [DODIC]: UH-1N Replacement
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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/Contractor Furnished Equipment ^(†)		2021	Boeing / Ridley Park, PA	C / FFP	AFLCMC/WI - ISR & SOF	Sep 2021	Apr 2023	8	15.799	N	Dec 2020	Jul 2017

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 1 **P-1 Line Item Number / Title:** H0106O / UH-1N Replacement **Item Number / Title [DODIC]:** UH-1N Replacement

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
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/Contractor Furnished Equipment																															
	1	2021	AF	8	0	8																									

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 1	P-1 Line Item Number / Title: H0106O / UH-1N Replacement	Item Number / Title [DODIC]: UH-1N Replacement
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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/Contractor Furnished Equipment																															
1	2021	AF		8	0	8	-	-	-	-	-	-	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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Exhibit P-21, Production Schedule: PB 2021 Air Force									Date: February 2020			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 1					P-1 Line Item Number / Title: H0106O / UH-1N Replacement				Item Number / Title [DODIC]: UH-1N Replacement			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2021	1-8-5 For 2021	MAX For 2021	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 - Ridley Park, PA	2	8	16	0	12	19	31	0	0	0	0

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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 / Combat Rescue Helicopter

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207229F **Other Related Program Elements:** 0605229F

Line Item MDAP/MAIS Code: 479

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	10	12	16	3	19	20	20	17	-	5	103
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	660.358	850.535	973.473	174.000	1,147.473	1,258.477	1,483.613	1,258.709	80.341	809.515	7,549.021
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	660.358	850.535	973.473	174.000	1,147.473	1,258.477	1,483.613	1,258.709	80.341	809.515	7,549.021
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	660.358	850.535	973.473	174.000	1,147.473	1,258.477	1,483.613	1,258.709	80.341	809.515	7,549.021

(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	-	75.821	96.803	64.836	81.922	111.591	-	430.973
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	49.834	52.831	43.271	58.000	45.596	45.535	51.975	54.229	-	68.016	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	66.036	70.878	60.842	58.000	60.393	62.924	74.181	74.042	-	161.903	73.291

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 Milestone B (MS B) Defense Acquisition Board (DAB) occurred in June 2014, and the program office (PO) received approval to enter Engineering and Manufacturing Development (EMD) from the Undersecretary of Defense (Acquisition, Technology and Logistics) (USD(AT&L)). The PO then 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 98 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 up to 61 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 108 aircraft (includes 10 test aircraft) within the 113 limit of the current contract. 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, 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, 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 will be procured with Aircraft Procurement, Air Force (APAF) BA4 funding in FY19 and FY20. Spare engines are included within the Initial Spares. Starting in FY21 Initial Spares will be procured with APAF BA 6.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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 / Combat Rescue Helicopter
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207229F	Other Related Program Elements: 0605229F
Line Item MDAP/MAIS Code: 479		
<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 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) and Mobile User Objective System (MUOS).</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 2021 Air Force **Date:** February 2020

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 / Combat Rescue Helicopter

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207229F **Other Related Program Elements:** 0605229F

Line Item MDAP/MAIS Code: 479

Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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	Combat Rescue Helicopter	P-5a, P-21	B		- / -	10 / 660.358	12 / 850.535	16 / 973.473	3 / 174.000	19 / 1,147.473
P-40	Total Gross/Weapon System Cost				- / -	10 / 660.358	12 / 850.535	16 / 973.473	3 / 174.000	19 / 1,147.473

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

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

Justification:
 FY21 funding will procure 19 (16 base + 3 OCO) 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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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 1	P-1 Line Item Number / Title: H060WH / Combat Rescue Helicopter	Item Number / Title [DODIC]: Combat Rescue Helicopter

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	-	10	12	16	3	19
Gross/Weapon System Cost (\$ in Millions)	-	660.358	850.535	973.473	174.000	1,147.473
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	660.358	850.535	973.473	174.000	1,147.473
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	660.358	850.535	973.473	174.000	1,147.473

(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	75.821	0.000	75.821
Gross/Weapon System Unit Cost (\$ in Millions)	-	66.036	70.878	60.842	58.000	60.393

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - HH-60W Cost																		
Recurring Cost																		
Airframe / CFE ^(†)	-	-	-	41.245	10	412.454	41.432	12	497.181	38.736	16	619.781	38.736	3	116.209	38.736	19	735.990
Other Flyaway Costs	-	-	-	-	-	85.887	-	-	136.793	-	-	72.547	-	-	57.791	-	-	130.338
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>498.341</i>	-	-	<i>633.974</i>	-	-	<i>692.328</i>	-	-	<i>174.000</i>	-	-	<i>866.328</i>
<i>Subtotal: Flyaway - HH-60W Cost</i>	-	-	-	-	-	<i>498.341</i>	-	-	<i>633.974</i>	-	-	<i>692.328</i>	-	-	<i>174.000</i>	-	-	<i>866.328</i>
Support - HH-60W Cost																		
Support Equipment	-	-	-	-	-	17.072	-	-	11.403	-	-	28.279	-	-	-	-	-	28.279
Training	-	-	-	-	-	24.136	-	-	88.788	-	-	65.572	-	-	-	-	-	65.572
Site Activation	-	-	-	-	-	12.597	-	-	12.681	-	-	20.192	-	-	-	-	-	20.192
Initial Spares	-	-	-	-	-	81.812	-	-	91.209	-	-	-	-	-	-	-	-	-
Initial Spares for OCO aircraft	-	-	-	-	-	-	-	-	-	-	-	25.037	-	-	-	-	-	25.037
PMA Contractor Services	-	-	-	-	-	-	-	-	11.000	-	-	11.000	-	-	-	-	-	11.000
PMA Other Government Costs	-	-	-	-	-	-	-	-	1.480	-	-	4.200	-	-	-	-	-	4.200
Other Government Costs	-	-	-	-	-	-	-	-	-	-	-	15.321	-	-	-	-	-	15.321
Depot Standup	-	-	-	-	-	-	-	-	-	-	-	31.371	-	-	-	-	-	31.371
Modernization/Upgrades	-	-	-	-	-	-	-	-	-	-	-	63.564	-	-	-	-	-	63.564
Data/Pubs	-	-	-	-	-	-	-	-	-	-	-	16.609	-	-	-	-	-	16.609
Other	-	-	-	-	-	26.400	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2021 Air Force												Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 1						P-1 Line Item Number / Title: H060WH / Combat Rescue Helicopter						Item Number / Title [DODIC]: Combat Rescue Helicopter					
ID Code (A=Service Ready, B=Not Service Ready) : B												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - HH-60W Cost</i>	-	-	-	-	-	162.017	-	-	216.561	-	-	281.145	-	-	-	-	-	281.145
Gross/Weapon System Cost	-	-	-	66.036	10	660.358	70.878	12	850.535	60.842	16	973.473	58.000	3	174.000	60.393	19	1,147.473

Remarks:

Initial Spares were not accounted for in this OCO funding or in line item P-67. The cost of the spares for those additional aircraft (\$25.037M) is broken out in the Cost Element above.

Other Government Costs includes defensive systems and product support.

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

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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 1	P-1 Line Item Number / Title: H060WH / Combat Rescue Helicopter	Item Number / Title [DODIC]: Combat Rescue Helicopter
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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 ^(†)		2019	Sikorsky Aircraft / Stratford, CT	SS / FPIF	AFLCMC/WI - ISR & SOF	Sep 2019	Apr 2021	10	41.245	Y		Mar 2012 ⁽¹⁾
Airframe / CFE ^(†)		2020	Sikorsky Aircraft / Stratford, CT	SS / FPIF	AFLCMC/WI - ISR & SOF	Apr 2020	Apr 2022	12	41.432	Y		Mar 2012
Airframe / CFE ^(†)		2021	Sikorsky Aircraft / Stratford, CT	SS / FFP	AFLCMC/WI - ISR & SOF	Apr 2021	Jun 2023	16	38.736	Y		Mar 2012
Airframe / CFE ^(†)	✓	2021	Sikorsky Aircraft / Stratford, CT	SS / FFP	AFLCMC/WI - ISR & SOF	Apr 2021	Jul 2023	3	38.736	Y		Mar 2012

^(†) indicates the presence of a P-21

Footnotes:

⁽¹⁾ All lots are contract options covered under the same contract (RFP 9 Mar 12, Award 26 Jun 14). Each lot is exercised individually. Lot 1 (LRIP) was exercised in Sept 2019. Lot 2 (LRIP) will be exercised NLT Apr 2020. Lot 3 (LRIP) will be exercised NLT Nov 2021.

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 1	P-1 Line Item Number / Title: H060WH / Combat Rescue Helicopter	Item Number / Title [DODIC]: Combat Rescue Helicopter
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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			
Airframe / CFE																																	
	1	2019	AF	10	0	10	-	-	-	-	-	-	-	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	1	6
	1	2021	AF	16	0	16								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16		
✓	1	2021	AF	3	0	3								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
							O C T	N O V	D E C	J A N	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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 1	P-1 Line Item Number / Title: H060WH / Combat Rescue Helicopter	Item Number / Title [DODIC]: Combat Rescue Helicopter
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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 / CFE																															
	1	2019	AF	10	10	0																							0		
	1	2020	AF	12	6	6	1	1	1	1	1	1																	0		
	1	2021	AF	16	0	16	-	-	-	-	-	-	-	2	-	1	1	1	2	1	2	2	1	2	1				0		
✓	1	2021	AF	3	0	3	-	-	-	-	-	-	-	-	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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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 1	P-1 Line Item Number / Title: H060WH / Combat Rescue Helicopter	Item Number / Title [DODIC]: Combat Rescue Helicopter
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2021	1-8-5 For 2021	MAX For 2021	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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 4: Mission Support Aircraft	P-1 Line Item Number / Title: C03700 / C-37A
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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: 0401314F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	2	-	-	-	-	-	-	-	-	2
Gross/Weapon System Cost (<i>\$ in Millions</i>)	147.774	0.000	159.140	0.000	-	0.000	0.000	0.000	0.000	0.000	-	306.914
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	147.774	0.000	159.140	0.000	-	0.000	0.000	0.000	0.000	0.000	-	306.914
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	147.774	0.000	159.140	0.000	-	0.000	0.000	0.000	0.000	0.000	-	306.914

(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	-	-	-	-	-	-	-	-	153.457

Description:

This line item purchases 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 with a designed service life of 40,000 flying hours.

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

FY20 funding purchases 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 FY21 funding requested.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 4: Mission Support Aircraft	P-1 Line Item Number / Title: 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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	17	4	-	-	-	-	-	-	-	-	21
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	10.800	11.000	2.811	-	2.811	2.869	2.919	2.972	3.027	-	36.398
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	10.800	11.000	2.811	-	2.811	2.869	2.919	2.972	3.027	-	36.398
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	10.800	11.000	2.811	-	2.811	2.869	2.919	2.972	3.027	-	36.398

(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>)	-	0.457	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	0.635	2.750	-	-	-	-	-	-	-	-	1.733

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:

FY21 funding of \$2.815M 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) 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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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 4: Mission Support Aircraft		P-1 Line Item Number / Title: CAPAC0 / Civil Air Patrol A/C
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		

Note: Budgeted Quantities should be 4 for FY2021, 4 for FY2022, 4 for FY2023, 4 for FY2024, and 4 for FY2025.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	35	37	38	-	38	38	38	38	37	-	261
Gross/Weapon System Cost (<i>\$ in Millions</i>)	380.505	90.172	130.837	133.273	-	133.273	135.991	138.419	140.918	139.545	-	1,289.660
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	380.505	90.172	130.837	133.273	-	133.273	135.991	138.419	140.918	139.545	-	1,289.660
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	380.505	90.172	130.837	133.273	-	133.273	135.991	138.419	140.918	139.545	-	1,289.660

(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>)	-	2.576	3.536	3.507	-	3.507	3.579	3.643	3.708	3.771	-	4.941

Description:

Full-scale and Subscale Aerial Targets 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, and 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, and includes procurement of associated mission and 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 as needed. 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.

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.

Funding for this exhibit contained in PE 0305116F.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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		- / 31.620	35 / 31.402	25 / 27.652	25 / 28.193	- / -	25 / 28.193
P-5	Target Drones		A		- / -	- / 2.499	- / 2.543	- / 2.584	- / -	- / 2.584
P-5	QF-16	P-5a, P-21	A		- / 348.885	- / 56.271	12 / 100.642	13 / 102.496	- / -	13 / 102.496
P-40	Total Gross/Weapon System Cost				- / 380.505	35 / 90.172	37 / 130.837	38 / 133.273	- / -	38 / 133.273

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

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

Justification:
 FY21 AFSAT funds will be used to procure 25 USAF production assets, support equipment, sustaining, production and diminishing manufacturing engineering support.
 FY21 QF-16 funds will be used to procure 13 USAF production assets, support equipment, sustaining, production and diminishing manufacturing engineering support.
 FY21 Target Drones funds will be used to procure USAF Data Link System Replacement (DLS-r) units to replace obsolete/unsupportable existing DLS units at Tyndall AFB, FL in support of the TCS.
 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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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: 10TRGT / Target Drones	Item Number / Title [DODIC]: 835160 AFSAT

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	-	35	25	25	-	25
Gross/Weapon System Cost (\$ in Millions)	31.620	31.402	27.652	28.193	-	28.193
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	31.620	31.402	27.652	28.193	-	28.193
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	31.620	31.402	27.652	28.193	-	28.193

(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)	-	0.897	1.106	1.128	-	1.128

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 ^(t)	0.903	35	31.620	0.856	35	29.944	1.040	25	25.988	1.058	25	26.439	-	-	-	1.058	25	26.439
<i>Subtotal: Recurring Cost</i>	-	-	31.620	-	-	29.944	-	-	25.988	-	-	26.439	-	-	-	-	-	26.439
<i>Subtotal: Flyaway - AFSAT Cost</i>	-	-	31.620	-	-	29.944	-	-	25.988	-	-	26.439	-	-	-	-	-	26.439
Logistics - AFSAT Cost																		
Recurring Cost																		
Production Support	-	-	-	-	-	0.049	-	-	0.069	-	-	0.089	-	-	-	-	-	0.089
Government Support	-	-	-	-	-	0.455	-	-	0.613	-	-	0.657	-	-	-	-	-	0.657
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.504	-	-	0.682	-	-	0.746	-	-	-	-	-	0.746
<i>Subtotal: Logistics - AFSAT Cost</i>	-	-	-	-	-	0.504	-	-	0.682	-	-	0.746	-	-	-	-	-	0.746
Support - AFSAT Cost																		
PMA Contractor Services	-	-	-	-	-	0.802	-	-	0.824	-	-	0.845	-	-	-	-	-	0.845
PMA Other Government Costs	-	-	-	-	-	0.152	-	-	0.158	-	-	0.163	-	-	-	-	-	0.163
<i>Subtotal: Support - AFSAT Cost</i>	-	-	-	-	-	0.954	-	-	0.982	-	-	1.008	-	-	-	-	-	1.008
Gross/Weapon System Cost	-	-	31.620	0.897	35	31.402	1.106	25	27.652	1.128	25	28.193	-	-	-	1.128	25	28.193

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

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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: 10TRGT / Target Drones	Item Number / Title [DODIC]: 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 ^(†)		2019	Kratos, Unmanned Aerial Systems (UAS) / Sacramento, CA	SS / FFP	Eglin AFB	Mar 2019	Mar 2020	35	0.856	Y		Aug 2016
BQM-167 Production Article ^(†)		2020	Kratos, Unmanned Aerial Systems (UAS) / Sacramento, CA	SS / FFP	Eglin AFB	Mar 2020	Mar 2021	25	1.040	Y		Aug 2016
BQM-167 Production Article ^(†)		2021	Kratos, Unmanned Aerial Systems (UAS) / Sacramento, CA	SS / CS	Eglin AFB	Apr 2021	Apr 2022	25	1.058	Y		Dec 2019

^(†) indicates the presence of a P-21

Remarks:

CURRENT CONTRACTS:

- Lot 15 (Qty 35) Awarded with FY19 funds
- Lot 16 (Qty 25) Awarding with FY20 funds

FOLLOW-ON PRODUCTION CONTRACT:

Lots 17-21 production contract (base year plus 4 option years).

- Lot 17 (Qty 25) Awarding with FY21 funds
- Lot 18 (Qty 25) Awarding with FY22 funds
- Lot 19 (Qty 25) Awarding with FY23 funds
- Lot 20 (Qty 25) Awarding with FY24 funds
- Lot 21 (Qty 25) Awarding with FY25 funds

- Unit cost based on quantity price bands
- Specs available due to Pre Priced options in multi year contract

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

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 2021												Fiscal Year 2022												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 0	BAL D U E A S O F 1 O C T	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																																
Prior Years Deliveries: 35																																
1	2019	AF		35	20	15	3	3	3	3	3																		0			
1	2020	AF		25	0	25	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	3					0			
1	2021	AF		25	0	25						A	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	2	2	2	2	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 2021 Air Force **Date:** February 2020

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																															
Prior Years Deliveries: 35																															
1		2019	AF	35	35	0																						0			
1		2020	AF	25	25	0																						0			
1		2021	AF	25	13	12	2	2	2	2	2	2																0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: 10TRGT / Target Drones	Item Number / Title [DODIC]: 835160 AFSAT
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2021	1-8-5 For 2021	MAX For 2021	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	22	25	35	0	7	12	19	0	7	12	19

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

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

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Exhibit P-5, Cost Analysis: PB 2021 Air Force						Date: February 2020			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5				P-1 Line Item Number / Title: 10TRGT / Target Drones			Item Number / Title [DODIC]: Target Drones		
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:			
Resource Summary				Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (<i>Units in Each</i>)				-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-	2.499	2.543	2.584	-	2.584
Less PY Advance Procurement (<i>\$ in Millions</i>)				-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)				-	2.499	2.543	2.584	-	2.584
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)				-	2.499	2.543	2.584	-	2.584
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (<i>\$ in Millions</i>)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)				-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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	-	-	-	-	-	2.499	-	-	2.543	-	-	2.584	-	-	-	-	-	2.584
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.499	-	-	2.543	-	-	2.584	-	-	-	-	-	2.584
<i>Subtotal: Hardware - Target Control System Cost</i>	-	-	-	-	-	2.499	-	-	2.543	-	-	2.584	-	-	-	-	-	2.584
Gross/Weapon System Cost	-	-	-	-	-	2.499	-	-	2.543	-	-	2.584	-	-	-	-	-	2.584

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: 10TRGT / Target Drones	Item Number / Title [DODIC]: QF-16

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	-	-	12	13	-	13
Gross/Weapon System Cost (\$ in Millions)	348.885	56.271	100.642	102.496	-	102.496
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	348.885	56.271	100.642	102.496	-	102.496
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	348.885	56.271	100.642	102.496	-	102.496

(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)	-	-	8.387	7.884	-	7.884

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - QF-16 Cost																		
Recurring Cost																		
QF-16 Drone Peculiar Equipment ^(†)	1.446	94	135.882	-	-	48.000	4.181	12	50.177	3.980	13	51.740	-	-	-	3.980	13	51.740
<i>Subtotal: Recurring Cost</i>	-	-	135.882	-	-	48.000	-	-	50.177	-	-	51.740	-	-	-	-	-	51.740
Non Recurring Cost																		
Aircraft Vehicle Regeneration	-	-	148.312	-	-	1.000	-	-	26.187	-	-	27.604	-	-	-	-	-	27.604
Engine Regeneration	-	-	64.691	-	-	2.560	-	-	11.475	-	-	9.524	-	-	-	-	-	9.524
<i>Subtotal: Non Recurring Cost</i>	-	-	213.003	-	-	3.560	-	-	37.662	-	-	37.128	-	-	-	-	-	37.128
<i>Subtotal: Flyaway - QF-16 Cost</i>	-	-	348.885	-	-	51.560	-	-	87.839	-	-	88.868	-	-	-	-	-	88.868
Hardware - QF-16 Cost																		
Recurring Cost																		
Storage/Shipment	-	-	-	-	-	0.070	-	-	0.419	-	-	0.103	-	-	-	-	-	0.103
GFP Support	-	-	-	-	-	1.599	-	-	3.447	-	-	5.311	-	-	-	-	-	5.311
Other Support	-	-	-	-	-	1.300	-	-	6.934	-	-	6.200	-	-	-	-	-	6.200
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.969	-	-	10.800	-	-	11.614	-	-	-	-	-	11.614
<i>Subtotal: Hardware - QF-16 Cost</i>	-	-	-	-	-	2.969	-	-	10.800	-	-	11.614	-	-	-	-	-	11.614
Logistics - QF-16 Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2021 Air Force												Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5						P-1 Line Item Number / Title: 10TRGT / Target Drones						Item Number / Title [DODIC]: QF-16					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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	-	-	-	-	-	0.000	-	-	0.075	-	-	0.076	-	-	-	-	-	0.076
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.075	-	-	0.076	-	-	-	-	-	0.076
<i>Subtotal: Logistics - QF-16 Cost</i>	-	-	-	-	-	0.000	-	-	0.075	-	-	0.076	-	-	-	-	-	0.076
Support - QF-16 Cost																		
PMA Contractor Services	-	-	-	-	-	1.269	-	-	1.385	-	-	1.540	-	-	-	-	-	1.540
PMA Other Government Costs	-	-	-	-	-	0.473	-	-	0.543	-	-	0.398	-	-	-	-	-	0.398
<i>Subtotal: Support - QF-16 Cost</i>	-	-	-	-	-	1.742	-	-	1.928	-	-	1.938	-	-	-	-	-	1.938
Gross/Weapon System Cost	-	-	348.885	-	-	56.271	8.387	12	100.642	7.884	13	102.496	-	-	-	7.884	13	102.496

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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: 10TRGT / Target Drones	Item Number / Title [DODIC]: 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 ^(†)		2014	The Boeing Company / St Louis MO	C / FFP	Eglin AFB	May 2014	Mar 2017	25	1.389	Y		Jun 2009
QF-16 Drone Peculiar Equipment ^(†)		2015	The Boeing Company / St Louis MO	C / FFP	Eglin AFB	Mar 2015	Jul 2019	19	1.222	Y		Jun 2009
QF-16 Drone Peculiar Equipment ^(†)		2016	The Boeing Company / St Louis MO	C / FFP	Eglin AFB	Mar 2016	Mar 2020	25	1.210	Y		Jun 2009
QF-16 Drone Peculiar Equipment ^(†)		2017	The Boeing Company / St Louis MO	C / FFP	Eglin AFB	Mar 2017	Mar 2021	13	2.739	Y		Jun 2009
QF-16 Drone Peculiar Equipment ^(†)		2018	The Boeing Company / St Louis MO	C / FFP	Eglin AFB	Nov 2017	Sep 2021	12	1.862	Y		Jan 2017
QF-16 Drone Peculiar Equipment ^(†)		2020	The Boeing Company / St Louis MO	SS / FPIF	Eglin AFB	Mar 2020	Mar 2022	12	4.181	Y		Jun 2019
QF-16 Drone Peculiar Equipment ^(†)		2021	The Boeing Company / St Louis MO	SS / FPIF	Eglin AFB	Mar 2021	Mar 2023	13	3.980	Y		Jun 2020

^(†) indicates the presence of a P-21

Remarks:

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

CURRENT CONTRACTS:

-Lot 3 (25 USAF aircraft) Awarded with FY14 (6 aircraft) and FY15 (19 aircraft) funds

-Lot 4 (25 USAF aircraft) 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

FOLLOW-ON PRODUCTION CONTRACT:

-Lot 6 (13 USAF aircraft) Planned award 2QFY21 with FY21 funds

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

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 ⁽¹⁾	25	0	25																							25		
	1	2014	NAVY ^(‡)	2	0	2																							2		
	1	2014	Total	27	0	27																						27			
	1	2015	AF	19	0	19																							19		
	1	2016	AF	25	0	25																							25		
	1	2016	NAVY ^(‡)	5	0	5																							5		
	1	2016	Total	30	0	30																						30			
	1	2017	AF	13	0	13																							13		
	1	2017	NAVY ^(‡)	5	0	5																							5		
	1	2017	Total	18	0	18																						18			
	1	2018	AF	12	0	12																							12		
	1	2020	AF	12	0	12																							12		
	1	2021	AF	13	0	13																							13		
							O C T	N O V	D E C	J A N	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 2021 Air Force **Date:** February 2020

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	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					
QF-16 Drone Peculiar Equipment																																			
1		2014	AF ⁽¹⁾	25	0	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	19
1		2014	NAVY ^(‡)	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
1		2014	Total	27	0	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	21	
1		2015	AF	19	0	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19		
1		2016	AF	25	0	25																											25		
1		2016	NAVY ^(‡)	5	0	5																												5	
1		2016	Total	30	0	30																												30	
1		2017	AF	13	0	13																												13	
1		2017	NAVY ^(‡)	5	0	5																												5	
1		2017	Total	18	0	18																												18	
1		2018	AF	12	0	12																												12	
1		2020	AF	12	0	12																												12	
1		2021	AF	13	0	13																												13	
							O C T	N O V	D E C	J A N	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 2021 Air Force **Date:** February 2020

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 ⁽¹⁾	25	6	19	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	1	1	1	2	2	1	2	6		
1		2014	NAVY ⁽²⁾	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	0		
1		2014	Total	27	6	21	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	2	2	1	2	6			
1		2015	AF	19	0	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	13			
1		2016	AF	25	0	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25			
1		2016	NAVY ⁽²⁾	5	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5			
1		2016	Total	30	0	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30			
1		2017	AF	13	0	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13			
1		2017	NAVY ⁽²⁾	5	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5			
1		2017	Total	18	0	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18			
1		2018	AF	12	0	12		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12			
1		2020	AF	12	0	12																								12			
1		2021	AF	13	0	13																								13			
							O C T	N O V	D E C	J A N	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 2021 Air Force **Date:** February 2020

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 ⁽¹⁾	25	25	0																							0		
	1	2014	NAVY ^(‡)	2	2	0																							0		
	1	2014	Total	27	27	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2015	AF	19	19	0																							0		
	1	2016	AF	25	25	0																							0		
	1	2016	NAVY ^(‡)	5	5	0																							0		
	1	2016	Total	30	30	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2017	AF	13	13	0																							0		
	1	2017	NAVY ^(‡)	5	5	0																							0		
	1	2017	Total	18	18	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2018	AF	12	3	9	3	3	3																				0		
	1	2020	AF	12	0	12	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1							0		
	1	2021	AF	13	0	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	2	2	2	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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Exhibit P-21, Production Schedule: PB 2021 Air Force	Date: February 2020
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: 10TRGT / Target Drones	Item Number / Title [DODIC]: QF-16
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2021	1-8-5 For 2021	MAX For 2021	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	25	30	0	0	0	0	0	0	6	24	30

Remarks:
- Lot 3 and beyond deliveries extend past 12 months due to schedule delays. The program was re-baselined in February 2019, which is reflected in the P-21 schedule.

(‡) 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 2018 loaded in the month of first delivery.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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: 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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	2	1	-	-	-	-	-	-	-	-	3
Gross/Weapon System Cost (<i>\$ in Millions</i>)	234.566	216.113	114.095	161.117	-	161.117	132.858	136.848	140.952	185.725	-	1,322.274
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	234.566	216.113	114.095	161.117	-	161.117	132.858	136.848	140.952	185.725	-	1,322.274
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	234.566	216.113	114.095	161.117	-	161.117	132.858	136.848	140.952	185.725	-	1,322.274

(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>)	-	108.057	114.095	-	-	-	-	-	-	-	-	440.758

Description:

The COMPASS CALL capability is the USAF's premier wide-area coverage Airborne Electronic Attack (AEA) Offensive Counter Information (OCI) weapon system.

The current COMPASS CALL program of record as of second quarter FY2020 include the following resources: one (1) Baseline 1 (BL1) aircraft, nine (9) Mid-Baseline 2 (MBL2) aircraft and one (1) TC-130H trainer aircraft. Compass Call also has one (1) Weapon System Trainer (WST, flight deck simulator) and two (2) COMPASS CALL Mission Crew Simulators (CCMCS). Of the EC-130H aircraft, ten (10) are designated Primary Mission Aircraft Inventory (PMAI) and one (1) is Backup Aircraft Inventory (BAI). Two EC-130H aircraft were divested in the fourth quarter of FY 2018, and one EC-130H aircraft was divested in the fourth quarter of FY 2019 and one (1) EC-130H, the last BL1, is planned to divest in FY 2020.

Due to the age of the EC-130H fleet (average is 45 years) the re-hosting of the Prime Mission Equipment (PME) is crucial to ensuring the survival of this critical capability. The re-hosted COMPASS CALL platform will utilize PME off of the current airframe upgraded to the latest Baseline configuration. The re-hosted COMPASS CALL aircraft will provide increased range, speed, endurance and operating altitude for better stand-off range and survivability. This will enable the USAF to effectively conduct AEA in an Anti-Access/Area Denial (A2AD) environment. The re-hosted COMPASS CALL platform is based on a commercially-available 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).

Transitioning to the re-host effort, the program of record procured four (4) commercial derivative aircraft (known as EC-37B); one (1) in late FY 2017, one (1) in FY 2018 and two (2) aircraft in FY 2019 following a congressional add to accelerate procurement of the fourth EC-37B aircraft. One (1) will be procured in FY 2020. One (1) will be procured in FY 2021; bringing the program of record to six (6) aircraft procured through 2021. These aircraft will receive PME from legacy donor EC-130H aircraft, as well as new and upgraded PME. Modification efforts for the re-hosted aircraft are performed under the Aircraft Procurement, Air Force appropriation, Budget Activity 05, Budget Sub Activity 5, under P-1 Line Item Number: CALL00/COMPASS CALL Mods.

A Doctrine, Organization, Training, materiel, Leadership & Education, Personnel, Facilities (DOTMLPF) Change Recommendation (DCR) was approved on 23 March 2016. 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 needs of the combatant commands.

The COMPASS CALL Program is managed by the 645th Aeronautical Systems Group. Funding for this exhibit is contained in PE 0207253F.

Note: Budgeted quantities should be 1 for FY2021, 1 for FY2022, 1 for FY2023, 1 for FY2024, and 1 for FY2025.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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:
CALL00 / Compass Call

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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	Compass Call	P-5a, P-21	A		- / 234.566	2 / 216.113	1 / 114.095	- / 161.117	- / -	- / 161.117
P-40	Total Gross/Weapon System Cost				- / 234.566	2 / 216.113	1 / 114.095	- / 161.117	- / -	- / 161.117

*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 FY21 budget request supports the procurement of one commercial modifiable aircraft in addition to program management administration (PMA) requirements and alternate mission equipment. The COMPASS CALL mission system allows for rapid technology advancements.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: CALL00 / Compass Call	Item Number / Title [DODIC]: Compass Call

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (<i>Units in Each</i>)	-	2	1	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	234.566	216.113	114.095	161.117	-	161.117
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	234.566	216.113	114.095	161.117	-	161.117
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	234.566	216.113	114.095	161.117	-	161.117

(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>)	-	108.057	114.095	-	-	-

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Vehicles - Compass Call Cost																		
Recurring Cost																		
Aircraft ^(t)	116.372	2	232.743	107.976	2	215.953	114.095	1	114.095	159.867	1	159.867	-	-	-	159.867	1	159.867
<i>Subtotal: Recurring Cost</i>	-	-	232.743	-	-	215.953	-	-	114.095	-	-	159.867	-	-	-	-	-	159.867
<i>Subtotal: Vehicles - Compass Call Cost</i>	-	-	232.743	-	-	215.953	-	-	114.095	-	-	159.867	-	-	-	-	-	159.867
Support - Compass Call Cost																		
PMA - Other Gov't Costs	-	-	1.823	-	-	0.160	-	-	-	-	-	1.250	-	-	-	-	-	1.250
<i>Subtotal: Support - Compass Call Cost</i>	-	-	1.823	-	-	0.160	-	-	-	-	-	1.250	-	-	-	-	-	1.250
Gross/Weapon System Cost	-	-	234.566	108.057	2	216.113	114.095	1	114.095	-	-	161.117	-	-	-	-	-	161.117

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

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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: CALL00 / Compass Call	Item Number / Title [DODIC]: Compass Call
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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
Aircraft ^(†)		2019	L3Harris Technologies / Greenville, TX	SS / FFP	AFLCMC/WI - ISR & SOF	Mar 2019	Jun 2023	2	107.977	Y		Aug 2018
Aircraft ^(†)		2020	L3Harris Technologies / Waco, TX	SS / FFP	AFLCMC/WI - ISR & SOF	May 2020	Jun 2023	1	114.095	Y		May 2019
Aircraft ^(†)		2021	L3Harris Technologies / Waco, TX	SS / FFP	AFLCMC/WI - ISR & SOF	Nov 2020	Jan 2026	1	159.867	Y		May 2020

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5 **P-1 Line Item Number / Title:** CALL00 / Compass Call **Item Number / Title [DODIC]:** Compass Call

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
Aircraft																															
Prior Years Deliveries: 2																															
	1	2019	AF	2	0	2																								2	
	2	2020	AF	1	0	1																								1	
	2	2021	AF	1	0	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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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: CALL00 / Compass Call	Item Number / Title [DODIC]: Compass Call
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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	
Aircraft																																
Prior Years Deliveries: 2																																
	1	2019	AF	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
	2	2020	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	2	2021	AF	1	0	1		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5 **P-1 Line Item Number / Title:** CALL00 / Compass Call **Item Number / Title [DODIC]:** Compass Call

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
Aircraft																															
Prior Years Deliveries: 2																															
	1	2019	AF	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	2	2020	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	2	2021	AF	1	0	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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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5 **P-1 Line Item Number / Title:** CALL00 / Compass Call **Item Number / Title [DODIC]:** Compass Call

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					
Aircraft																																			
Prior Years Deliveries: 2																																			
	1	2019	AF		2	2	0																						0						
	2	2020	AF		1	1	0																						0						
	2	2021	AF		1	0	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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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: CALL00 / Compass Call	Item Number / Title [DODIC]: Compass Call
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2021	1-8-5 For 2021	MAX For 2021	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	L3Harris Technologies - Greenville, TX				0	0	0	0	0	0	0	0	0
2	L3Harris Technologies - Waco, TX	1	2	2	0	0	0	0	0	0	2	62	64

"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 2021 Air Force **Date:** February 2020

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: 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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	100.000	210.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	310.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	100.000	210.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	310.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	100.000	210.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	310.000

(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.

The Air Force is in the final stages of completing the purchase of two AT-6 aircraft for Air Combat Command to continue the Light Attack experimentation and two A-29 aircraft in support of Air Force Special Operations Command's (AFSOC) Combat Aviation Advisory (CAA) mission. The \$210M Congressional increase in Fiscal Year 2020 Aircraft Procurement funding will enable the Air Force to fully fund this procurement as well as fund the associated Contractor Logistics Support and evaluate the procurement of additional turbo prop aircraft in support of AFSOC's CAA mission. With the \$2M of Research, Development, Test and Evaluation funding received in the Fiscal Year 2020 budget, the Air Force will continue Light Attack experimentation to support the continued development of a secure and exportable tactical network capability to ensure the United States and international partners can address counter-Violent Extremist Organizations (cVEO) missions.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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: OAX000 / Observation Attack Replacement (OA-X)
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		

Justification:
There are currently no FY21 procurement funds being requested for Light Attack aircraft.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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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: 0304260F, 0305206F, 0305219F
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Line Item MDAP/MAIS Code: 424

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	24	24	-	-	-	-	-	-	-	-	48
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	401.603	468.600	29.409	142.490	171.899	65.052	65.565	0.000	0.000	0.000	1,172.719
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	401.603	468.600	29.409	142.490	171.899	65.052	65.565	0.000	0.000	0.000	1,172.719
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	401.603	468.600	29.409	142.490	171.899	65.052	65.565	0.000	0.000	0.000	1,172.719

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

Initial Spares (<i>\$ in Millions</i>)	-	48.248	110.012	47.396	-	47.396	49.212	41.974	-	-	-	296.842
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	15.883	17.410	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	16.733	19.525	-	-	-	-	-	-	-	-	24.432

Description:

FY19 funding totals include \$265.700M appropriated for OCO.

FY20 funding totals include \$376.440M appropriated for OCO.

OCO funds 16 of the 24 aircraft in FY19 to support lifecycle sustainment and projected attrition/combat loss numbers.

OCO funds 21 of the 24 aircraft in FY20 to support lifecycle sustainment and projected attrition/combat loss numbers.

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.

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, improved crew habitability, and multiple aircraft control.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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		
<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>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>Funding may be used to address Diminishing Manufacturing Sources (DMS) and Non-Recurring Engineering (NRE) issues. MQ-9 will complete Bridge or Life of Type Buys (LOTB), to protect the production lines as long as such a procurement is more optimal than other DMSMS solutions.</p> <p>MQ-9 Integrated Program Review (IPR) was completed 11 Sep 2017, program ID Code is now A. A formal Full Rate Production (FRP) will not be completed due to the de facto production decision provided by continued funding beyond Low Rate Initial Production. Developmental specifications are being used for contracting.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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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: 0304260F, 0305206F, 0305219F
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Line Item MDAP/MAIS Code: 424

Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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 / 401.603	24 / 468.600	- / 29.409	- / 142.490	- / 171.899
P-40	Total Gross/Weapon System Cost				- / -	24 / 401.603	24 / 468.600	- / 29.409	- / 142.490	- / 171.899

*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. Production Line Shutdown - FY21 funding will be used for production line shutdown activities.
 - B. Training Device/Simulator - FY21 funding procures brief/debrief stations, local area network (LAN) cabinets, and other mission requirements to support aircrew training. Simulator quantities are various configurations of Instructor Operator Stations (IOS) with mission coordination capabilities to support aircrew training.
 - C. Predator Primary Satellite Link (PPSL) - FY21 procures PPSL hardware for aircraft and GCS operations.
 - D. DMS - FY21 funding will be used for DMSMS solutions to include but not limited to bridge or life of type buys.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: PRDTB1 / MQ-9	Item Number / Title [DODIC]: MQ-9

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	-	24	24	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	401.603	468.600	29.409	142.490	171.899
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	401.603	468.600	29.409	142.490	171.899
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	401.603	468.600	29.409	142.490	171.899

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

Initial Spares (\$ in Millions)	-	48.248	110.012	47.396	-	47.396
Gross/Weapon System Unit Cost (\$ in Millions)	-	16.733	19.525	-	-	-

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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																		
MQ-9 Reaper Aircraft and GFE	-	-	-	15.883	24	381.193	16.931	24	406.340	-	-	-	-	-	-	-	-	-
Production Support	-	-	-	-	-	-	-	-	1.130	-	-	-	-	-	-	-	-	-
Mobile Ground Control Station and GFE	-	-	-	-	-	-	-	-	0.280	-	-	-	-	-	-	-	-	-
Predator Primary Satellite Link (PPSL)	-	-	-	-	-	-	-	-	10.100	-	-	-	-	-	9.000	-	-	9.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	381.193	-	-	417.850	-	-	-	-	-	9.000	-	-	9.000
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	-	-	-	381.193	-	-	417.850	-	-	-	-	-	9.000	-	-	9.000
Support - Support End Item Cost																		
Other Government Costs (OGC)	-	-	-	-	-	20.410	-	-	13.520	-	-	-	-	-	15.200	-	-	15.200
Initial Spares/Deployment Support Kits	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Support Equipment	-	-	-	-	-	0.000	-	-	14.880	-	-	-	-	-	0.000	-	-	0.000
Training Device/Simulator	-	-	-	-	-	0.000	-	-	12.000	-	-	-	-	-	11.150	-	-	11.150
Production Shutdown	-	-	-	-	-	0.000	-	-	0.000	-	-	29.409	-	-	75.990	-	-	105.399
DMS	-	-	-	-	-	-	-	-	10.350	-	-	-	-	-	13.950	-	-	13.950
MQ-9 ECP's	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.200	-	-	17.200
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	20.410	-	-	50.750	-	-	29.409	-	-	133.490	-	-	162.899

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Exhibit P-5, Cost Analysis: PB 2021 Air Force												Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5						P-1 Line Item Number / Title: PRDTB1 / MQ-9						Item Number / Title [DODIC]: MQ-9					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Gross/Weapon System Cost	-	-	-	16.733	24	401.603	19.525	24	468.600	-	-	29.409	-	-	142.490	-	-	171.899

Remarks:

Aircraft procurement ends in FY20. Production line shutdown is funded starting in FY21.

The Minimum Sustaining Rate (MSR) for the MQ-9 is 16 aircraft. 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 2021 Air Force **Date:** February 2020

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: 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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	20	18	-	-	-	19	18	16	16	-	107
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	13.500	12.150	0.000	13.770	13.770	12.800	12.000	10.866	11.061	-	86.147
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	13.500	12.150	0.000	13.770	13.770	12.800	12.000	10.866	11.061	-	86.147
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	13.500	12.150	0.000	13.770	13.770	12.800	12.000	10.866	11.061	-	86.147

(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	-	-	-	-	-	-	-	-	1.400
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	0.675	0.675	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	0.675	0.675	-	-	-	0.674	0.667	0.679	0.691	-	0.805

Description:

FY19 funding totals include \$13.5M appropriated 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.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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: 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

Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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	RQ-20B Puma	P-5a	A		- / -	20 / 13.500	18 / 12.150	- / 0.000	- / 13.770	- / 13.770
P-40	Total Gross/Weapon System Cost				- / -	20 / 13.500	18 / 12.150	- / 0.000	- / 13.770	- / 13.770

*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 FY2021 OCO request will procure 20 RQ-20B Puma's and associated equipment.

 Note: Budgeted quantities should be 20 for FY2021 OCO.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: Q020BR / RQ-20B Puma	Item Number / Title [DODIC]: RQ-20B Puma

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (<i>Units in Each</i>)	-	20	18	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	13.500	12.150	0.000	13.770	13.770
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	13.500	12.150	0.000	13.770	13.770
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	13.500	12.150	0.000	13.770	13.770

(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	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	0.675	0.675	-	-	-

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - RQ-20B Puma Cost																		
Recurring Cost																		
RQ-20B Puma ^(†)	-	-	-	0.675	20	13.500	0.675	18	12.150	-	-	0.000	-	-	13.770	-	-	13.770
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	13.500	-	-	12.150	-	-	0.000	-	-	13.770	-	-	13.770
<i>Subtotal: Flyaway - RQ-20B Puma Cost</i>	-	-	-	-	-	13.500	-	-	12.150	-	-	0.000	-	-	13.770	-	-	13.770
Gross/Weapon System Cost	-	-	-	0.675	20	13.500	0.675	18	12.150	-	-	0.000	-	-	13.770	-	-	13.770

Remarks:

Note: Budgeted quantities should be 20 for FY2021 OCO.

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: Q020BR / RQ-20B Puma	Item Number / Title [DODIC]: RQ-20B Puma
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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
RQ-20B Puma		2019	AeroVironment / Simi Valley, CA	MIPR	N/A	Jan 2019	Jan 2019	20	0.675	Y		
RQ-20B Puma		2020	AeroVironment / Simi Valley, CA	MIPR	N/A	Jan 2020	Jan 2020	18	0.675	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	846.490	768.239	926.683	10.700	937.383	1,032.257	878.510	881.552	958.635	418.630	6,721.696
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	846.490	768.239	926.683	10.700	937.383	1,032.257	878.510	881.552	958.635	418.630	6,721.696
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	846.490	768.239	926.683	10.700	937.383	1,032.257	878.510	881.552	958.635	418.630	6,721.696

(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 2019 funding totals include \$91.500M appropriated for Overseas Contingency Operations.

FY 2020 funding totals include \$44.560 requested for Overseas Contingency Operations.

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
- UH-1N Replacement, 562

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

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.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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

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.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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			212 277 265 198 199 387 424 252	- / -	- / 846.490	- / 768.239	- / 926.683	- / 10.700	- / 937.383
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 846.490	- / 768.239	- / 926.683	- / 10.700	- / 937.383

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: FY21 funds are necessary to procure initial 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: FY21 funds are required for spare parts for BQM-167 and QF-16. Spares include replacement components, equipment and parts.
ASARS-2B/U-2 Mods: FY21 funds are required to procure initial spares for the Advanced Synthetic Aperture Radar System (ASARS)-2B.
B-52: The FY21 funding will provide the second year of spares for the Tactical Data Link (TDL). It will provide low latency, jam-resistant situational awareness and command/control needed to support in-theater operations/missions via a Line-of-Sight (LOS) Link 16 capability. This funding will purchase off-the-shelf Link 16 terminal LRUs including Multifunctional Information Distribution System (MIDS) Joint Tactical Radio Systems Terminals (JTRS), displays, and antennas to support the fielding of Link-16 into the B-52H.
C-17: FY21 funding is required for C-17 to procure landing gears and initial spares of the hardware kits for upcoming modification programs: Beyond Line Of Site (BLOS) , Replacement Heads Up Display (RHUD), Filter Fire, and other productions efforts.
C-5: FY21 funds are required to procure recently established initial spares levels for the C-5M enterprise supply network. The established initial spares levels are those quantities required to support and maintain operations of C-5M aircraft that have been newly modified with CNS/ATM. These spares include CNS/ATM Group A and Group B items such as SATCOM, ARC-210s, remote control units, cable/harnesses.
Combat Developments: FY21 funds are necessary to provide initial spares for E-9 Systems Modifications (Spares).
Compass Call: FY21 funding provides 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.
CRH (479): The FY21 request provides funding for initial spares, including but not limited to airframe, engine, readiness, and training systems to support the associated FY21 procurement of 16 HH-60W aircraft.
CV-22 (212): FY21 funds are necessary to provide 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.
E-3 Airborne Warning and Control System (AWACS): FY21 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.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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		
<p>EQ-4B BACN: FY21 funds are required to support initial fielding of numerous program efforts including, but not limited to, BACN payloads and associated sensor equipment, aircraft components and communication systems associated with the BACN mission. Funding for this exhibit contained in PE 0207239F</p> <p>F-15: The FY21 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 cover the demand period and fill the spares pipeline until transitioned to sustainment. The programs requiring funding in FY21 are F-15C/D IRST, F-15 C/E ADCP II, F-15 C/D Longerons, F-15 C/D/E Mode 5, F-15 C/D/E MIDS-JTRS, F-15E APG-82(V)1, and F-15E RMP</p> <p>F-35: The F-35 initial spares requirement for FY 2021 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 and modules. The GSP is shared amongst all F-35 Participants based on variant and flight hours. The Air Force initial spares requirement in FY 2021 consists of its contribution to GSP; one (2) BSPs to support Traux and Dannelly; and two (2) DSPs (AF DSPs 13 and 14)</p> <p>E-4B National Airborne Operations Center (NAOC): FY21 funds are required to establish Survivable Super High Frequency (SSHF) initial spares as well as low cost modification initial spares</p> <p>F-15 EPAWSS: FY21 will be used for EPAWSS Initial Spares in LRIP Lot 1</p> <p>F-16 Squadrons: The FY21 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 (AESA), 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 FY21 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: FY21 funds are required to procure initial spares for the IR sensor mod. The current IR sensors on Gorgon Stare Increment 2 equipped MQ-9 combat lines have mission impacting DMS issues. This effort ensures that Wide Area Motion Imagery (WAMI) and combat overwatch capabilities are updated and initial spares are acquired to satisfy an ACC approved AF 1067 (ACC 18-075).</p> <p>HH-60G: FY21 BP16 funds will be used to purchase Degraded Visual Environment (DVE) spares.</p> <p>KC-10: The FY21 funding was required for Mode 5 initial spares program.</p> <p>KC-135: The FY21 funding is required for AERO-I and rudder positioning indicator initial spares programs.</p> <p>KC-46 (387): The aircraft initial spares program FY21 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. 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> <p>MQ-9: The FY21 funding procures the initial spare parts required to support newly-fielded MQ-9 Weapon Systems, including 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.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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		
<p>Precision Attack Systems Procurement: FY21 funds are required to procure initial spares for the Advanced Targeting Pod (ATP) components.</p> <p>RC-135 Aircraft: FY21 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.</p> <p>UH-1N Replacement (562): The FY21 request provides funding for initial spares, including but not limited to airframe, engine, readiness, and training systems to support the associated FY21 procurement of 8 UH-1N Replacement aircraft.</p> <p>VC-25A: FY21 funding is required to procure spares for the VC-25A mission communication system block upgrade program.</p>		

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2021 Air Force					Date: February 2020		
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 2019 (\$ M)	FY 2020 (\$ M)	FY 2021 Base (\$ M)	FY 2021 OCO (\$ M)	FY 2021 Total (\$ M)	
Initial							
BA 06 - Aircraft Spares and Repair Parts							
A01000 / A-10 Squadrons	-	0.000	5.171	7.258	0.000	7.258	
10TRGT / Aerial Targets	-	0.579	0.589	0.600	0.000	0.600	
OTHACF / Precision Attack Systems Procurement	-	3.310	3.367	3.423	0.000	3.423	
B01B00 / B-1B Squadrons	-	0.000	-	0.717	0.000	0.717	
B05200 / B-52 Squadrons	-	0.174	2.499	2.692	0.000	2.692	
C13000 / C-130 Airlift Squadron	-	0.034	-	0.000	0.000	0.000	
C01700 / C-17 Aircraft (IF)	-	11.175	12.103	47.774	0.000	47.774	
C00500 / C-5 AIRLIFT SQUADRONS (IF)	-	4.928	2.053	0.409	0.000	0.409	
OTHACF / Combat Developments	-	0.052	0.155	0.158	0.000	0.158	
CALL00 / Compass Call	-	10.554	10.805	10.985	0.000	10.985	
V022A0 / CV-22 [212]	-	0.000	-	6.574	0.000	6.574	
E00300 / Airborne Warning and Control System (AWACS) [277]	-	0.048	17.400	21.264	0.000	21.264	
E00400 / E-4B National Airborne Operations Center (NAOC)	-	1.061	0.332	0.339	0.000	0.339	
EQ04B0 / EQ-4B	-	0.000	3.480	0.000	0.000	0.000	
F01500 / F-15A/B/C/D Squadrons	-	2.670	4.499	37.645	0.000	37.645	
F15EWS / F-15 EPAWSS	-	0.000	4.185	8.036	0.000	8.036	
F01500E / F-15E Squadrons	-	9.109	3.647	18.839	0.000	18.839	
F01600 / F-16 Squadrons	-	11.223	30.463	27.930	0.000	27.930	
F02200 / F-22A Squadrons [265]	-	7.820	12.058	13.497	0.000	13.497	
ATA000 / F-35 Squadrons [198]	-	357.236	401.080	294.289	0.000	294.289	
FBLOST / Family of Advanced BLoS Terminals (FAB-T) [199]	-	6.134	-	0.000	0.000	0.000	
PRDTB3 / Gorgon Stare	-	7.500	29.597	43.058	10.700	53.758	
H060WH / Combat Rescue - HH-60	-	1.788	1.818	1.847	0.000	1.847	
C01000 / KC-10s	-	1.230	-	0.032	0.000	0.032	
C13500 / KC-135S	-	2.246	2.291	2.332	0.000	2.332	
KC046A / KC-46A Tanker Squadrons [387]	-	231.457	-	194.189	0.000	194.189	
PRDTB1 / MQ-9 UAV [424]	-	118.148	110.012	35.146	0.000	35.146	
JPATS0 / New AETC Aircraft Systems	-	0.590	-	0.001	0.000	0.001	
C02500 / Operational Support Airlift	-	4.800	-	2.157	0.000	2.157	
DARP01 / RC-135	-	49.464	83.572	51.282	0.000	51.282	

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2021 Air Force **Date:** February 2020

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
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End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2019 (\$ M)	FY 2020 (\$ M)	FY 2021 Base (\$ M)	FY 2021 OCO (\$ M)	FY 2021 Total (\$ M)
HAEUAV / RQ-4 UAV [252]	-	2.069	25.746	0.000	0.000	0.000
T00100 / Undergraduate Pilot Training (UPT)	-	1.091	1.317	0.000	0.000	0.000
H0106O / UH-1N Replacement Program	-	0.000	-	18.389	0.000	18.389
H06000 / Combat Rescue Helicopter	-	-	-	75.821	0.000	75.821
Subtotal: Initial	-	846.490	768.239	926.683	10.700	937.383
Total Cost (Initial + Replenishment)	-	846.490	768.239	926.683	10.700	937.383

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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: PRDTB1 / MQ-9 Spares
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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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	-	12.250	12.250	-	-	-	-	-	12.250
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	-	12.250	12.250	-	-	-	-	-	12.250
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	-	12.250	12.250	-	-	-	-	-	12.250

(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:

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.

Justification:

The following Major Defense Acquisition Program (MDAP) has funding in this line:
MQ-9 UAS Reaper, 424

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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): A **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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	31.796	108.860	93.212	132.719	25.614	158.333	186.516	177.137	178.532	194.310	0.000	1,128.696
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	31.796	108.860	93.212	132.719	25.614	158.333	186.516	177.137	178.532	194.310	0.000	1,128.696
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	31.796	108.860	93.212	132.719	25.614	158.333	186.516	177.137	178.532	194.310	0.000	1,128.696

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

Description:

FY18 funding totals include \$25.417M appropriated for Overseas Contingency Operation.

FY19 funding totals include \$32.529M appropriated for Overseas Contingency Operation.

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 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 are exceeding their 20 year life expectancy. The age of this equipment, 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

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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0202834F	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>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)</p> <p>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%.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>ATS - Base Maintenance and Support Equipment (ATS) ATS - Base Maintenance and Support Equipment supports the procurement of the Common Munitions Built-in Test Reprogramming Equipment (CMBRE),purchase/upgrades of Armament Test Sets, purchase of Test Measurement Diagnostic Equipment, hardware, TPS and other support to ensure cyber secure Automatic Test Systems. These programs require Program Management Administration (PMA) for TDY and other government costs associated with program/contract required activities.</p> <p>ATS - TMDE-Electronic (ATS) TMDE supports 5 programs : TMDE Analyzer, TMDE Calibrators, TMDE Generic, TMDE Meters, and TMDE Test Sets.</p> <p>Common Aircraft Portable Reprogramming Equipment (CAPRE)(ATS)</p>		

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<p>Common Aircraft Portable Reprogramming Equipment (CAPRE) replaces the Digital Computer System and 11 Program Loader Verifier devices in organizational and intermediate level shops. CAPRE reprograms aircraft computer software, updates threat data in electronic warfare pods, performs aircraft diagnostic troubleshooting, and supports 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 preferred MLV for the Air Force.</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. 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.</p> <p>A-10 Portable Automatic Test Set-70 (PATS-70/A) (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 (Version 1, Version and Armament). The PATS-70, a modernized version (Threshold) which also includes capabilities for ops check & fault isolation of Alpha Mach (Threshold) & Anti-Skid (Objective) Systems as PATS-70(v)1 followed by Anti-Skid & Fuel Quantity Indicating Systems (Thresholds) with Stability Augmentation System (SAS), Integrated Flight and Fire Control Computer (IFFCC) Systems (Objectives) as PATS-70(v)2. PATS-70A will incorporate all features of the following currently fielded O & I-level armament testers: Control Test Set TS-4231/U, Missile Launch Control Test Set TS-4231/U, Missile Launch System Test Set TS-4230/U, Guided Missile Test Set AN/DSM-157, Gun Test Set TS-138, MK-III & MK-IV Rocket Launcher & Flare Dispenser Testers, and Ejector Bomb & Rack Test Sets.</p> <p>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 support B-1, B-2, B-52, A-10, F-15, F16, 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>Nondestructive Inspection (NDI) & Joint Oil Analysis Program (JOAP)(SEV) The NDI/JOAP 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</p>		

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<p>capabilities represent 218 different National Stock Numbers. Many items within NDI & 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>Aircraft Engine Test Equipment (AETE)(SEV) 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 & engine download devices (various pieces of equipment that support the analysis of engines and potential issues needing maintenance attention). These capabilities represent approximately 153 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>Aircraft Engine Handling Equipment (AEHE)(SEV) 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>Aircraft Maintenance Test (AMT)(SEV) 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>Flight Line Maintenance Stands (SEV) 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>Flight Line Generators (SEV) 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 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>Flight Line Compressors (SEV) 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</p>		

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<p>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>Secondary Power(SEV) 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>Cryogenic Systems(SEV) 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>Miscellaneous Aerospace Ground Equipment (AGE)(SEV) 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>The ATS described in this document were evaluated/approved by the ILCM executive agent for the Automatic Test Systems (ATS) 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 testers that can perform similar testing across multiple weapon system platforms. The ATS Program Management Office ensures collaborative requirements planning on new ATS fielding to reduce proliferation of new weapon system unique ATS.</p> <p>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 6 nuclear certified testers. They are B-2 & B-52 Electronic Systems Test Set (ESTS), B-52 Multi-Use Systems Tester Armament Next Generation (MUSTANG), F-15 Armament Testers (T-198 & T-199), F-16 Aircraft Circuits Preload Test Set (ACPTS), and F-16 Stores System Tester (SST).</p> <p>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 new 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.</p> <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

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

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

Secondary Distribution		FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025
AF	Quantity	154	110	2	0	2	-	-	-	-
	Total Obligation Authority	108.860	74.292	97.926	25.614	123.540	25.082	51.743	51.812	-
AFNG	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.000	13.301	15.476	0.000	15.476	-	-	-	-
AFR	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.000	5.619	19.317	0.000	19.317	-	-	-	-
Total: Secondary Distribution	Quantity	154	110	2	0	2	-	-	-	-
	Total Obligation Authority	108.860	93.212	132.719	25.614	158.333	25.082	51.743	51.812	-

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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): A **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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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				- / -	- / 5.000	- / 0.000	- / 13.286	- / -	- / 13.286
P-5	B-1B Advanced REW Test Station (ARTS)		A		- / -	- / 0.000	- / 3.400	- / 6.647	- / -	- / 6.647
P-40a	Aerial Stores Lift Trucks				- / -	- / 3.724	- / 1.000	- / 5.763	- / 3.000	- / 8.763
P-40a	Aircraft Engine Handling Equipment				- / -	- / -	- / 0.140	- / 6.607	- / 0.142	- / 6.749
P-40a	Aircraft Maintenance Secondary Power				- / -	- / -	- / -	- / -	- / 0.971	- / 0.971
P-40a	AIRCRAFT MAINTENANCE STANDS				- / -	- / -	- / -	- / -	- / 1.001	- / 1.001
P-40a	Aircraft Maintenance Testers				- / -	- / 0.000	- / 22.188	- / 11.984	- / -	- / 11.984
P-3a	1 / MHU-196/204 SLEP (Service Life Extension)		B		- / 31.796	- / 6.979	- / 9.230	- / 11.930	- / 0.000	- / 11.930
P-40a	Ammunition Loading Equipment				- / -	- / -	- / -	- / 3.886	- / 2.500	- / 6.386
P-40a	ATS - Base Maint & Spt Eq				- / -	- / 10.544	- / 0.744	- / 7.753	- / -	- / 7.753
P-40a	ATS TMDE-Electronic				- / -	- / 0.100	- / 2.500	- / 6.603	- / -	- / 6.603
P-40a	B-52 MUSTANG Tester				- / -	- / 0.000	- / 1.500	- / 0.664	- / -	- / 0.664
P-5	Bomber Armament Tester		B		- / -	- / 0.000	- / 6.600	- / 12.080	- / -	- / 12.080
P-40a	BP12 ITEMS LESS THAN 5 MILLION DOLLARS				- / -	- / 34.557	- / 1.249	- / -	- / -	- / -
P-5	COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)		A		- / -	- / 12.009	- / 7.000	- / 15.229	- / -	- / 15.229
P-40a	Flight Line Generators				- / -	- / 2.860	- / 0.780	- / 3.097	- / 2.000	- / 5.097
P-40a	FLIGHTLINE COMPRESSORS				- / -	- / -	- / 1.869	- / -	- / 2.001	- / 2.001
P-40a	FLIGHTLINE CRYOGENIC SYSTEMS				- / -	- / 0.000	- / 1.770	- / -	- / 2.001	- / 2.001
P-40a	Flightline Heating, Ventilating, Air Conditioning				- / -	- / 2.542	- / 0.566	- / 16.302	- / 5.997	- / 22.299
P-40a	Hydraulic Servicing Equipment				- / -	- / 13.375	- / 0.000	- / 1.912	- / 3.000	- / 4.912
P-40a	JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER (JSECST)				- / -	- / -	- / 5.800	- / 0.993	- / -	- / 0.993
P-40a	MISC AEROSPACE GROUND EQUIP (AGE)				- / -	- / 6.260	- / 0.900	- / -	- / 3.001	- / 3.001
P-40a	Nondestructive Inspection (NDI) Joint Oil Analysis Program (JOAP)				- / -	- / 0.000	- / 25.976	- / 7.983	- / -	- / 7.983
P-5	SMALL MUNITIONS TRAILERS RECAP (MHU-110/141)		A		- / -	- / 10.910	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 31.796	- / 108.860	- / 93.212	- / 132.719	- / 25.614	- / 158.333

Exhibits Schedule					FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Aircraft Engine Testing Equipment Program				- / -	- / -	- / -	- / -	- / -	- / -
P-5	B-1B Advanced REW Test Station (ARTS)		A		- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Aerial Stores Lift Trucks				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Aircraft Engine Handling Equipment				- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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): A **Program Elements for Code B Items:** 0202834F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Aircraft Maintenance Secondary Power				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	AIRCRAFT MAINTENANCE STANDS				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Aircraft Maintenance Testers				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / MHU-196/204 SLEP (Service Life Extension)		B		- / 25.082	- / 51.743	- / 51.812	- / 0.000	- / 0.000	- / 188.572
P-40a	Ammunition Loading Equipment				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	ATS - Base Maint & Spt Eq				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	ATS TMDE-Electronic				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	B-52 MUSTANG Tester				- / -	- / -	- / -	- / -	- / -	- / -
P-5	Bomber Armament Tester		B		- / -	- / -	- / -	- / -	- / -	- / -
P-40a	BP12 ITEMS LESS THAN 5 MILLION DOLLARS				- / -	- / -	- / -	- / -	- / -	- / -
P-5	COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)		A		- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Flight Line Generators				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	FLIGHTLINE COMPRESSORS				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	FLIGHTLINE CRYOGENIC SYSTEMS				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Flightline Heating, Ventilating, Air Conditioning				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Hydraulic Servicing Equipment				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER (JSECST)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	MISC AEROSPACE GROUND EQUIP (AGE)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Nondestructive Inspection (NDI) Joint Oil Analysis Program (JOAP)				- / -	- / -	- / -	- / -	- / -	- / -
P-5	SMALL MUNITIONS TRAILERS RECAP (MHU-110/141)		A		- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 186.516	- / 177.137	- / 178.532	- / 194.310	- / 0.000	- / 1,128.696

*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:
 FY20 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 include studies for DMSMS actions.

FY20 procurement dollars in the amount of \$7.025M support the European Contingency Air Operations System (ECAOS)/Deployable Air Base System (DABS) - Facilities, Equipment, and Vehicles (FEV).

Efforts with funding starting in FY 2022 through FY 2025 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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): A	Program Elements for Code B Items: 0202834F	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

- (a) FY 2022 Cost Delta: 161.434 million
- (b) FY 2023 Cost Delta: 125.394 million
- (c) FY 2024 Cost Delta: 126.720 million
- (d) FY 2025 Cost Delta: 194.310 million
- (e) FY Total Cost Delta: 940.124 million

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force															Date: February 2020				
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 Testing Equipment Program				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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																				
Advanced Control Tester (ACT)	A		-	-	-	-	-	5.000	-	-	0.000	-	-	13.286	-	-	-	-	-	13.286
<i>Secondary Distribution</i>																				
AF				-	-		-	5.000		-	0.000		-	0.000		-	-		-	0.000
AFNG				-	-		-	-		-	-		-	4.435		-	-		-	4.435
AFR				-	-		-	-		-	-		-	8.851		-	-		-	8.851
Subtotal: Hardware				-	-		-	5.000		-	0.000		-	13.286		-	-		-	13.286
Total				-	-		-	5.000		-	0.000		-	13.286		-	-		-	13.286

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-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Item Number / Title [DODIC]: B-1B Advanced REW Test Station (ARTS)

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

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	3.400	6.647	-	6.647
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	3.400	6.647	-	6.647
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.000	3.400	6.647	-	6.647

(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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - Hardware End Item Cost																		
Recurring Cost																		
Advanced RE/W Test Station	-	-	-	-	-	-	-	-	2.400	-	-	3.000	-	-	-	-	-	3.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	2.400	-	-	3.000	-	-	-	-	-	3.000
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	-	-	-	2.400	-	-	3.000	-	-	-	-	-	3.000
Support - Support End Item Cost																		
ICS	-	-	-	-	-	0.000	-	-	0.500	-	-	3.554	-	-	-	-	-	3.554
PMA Other Government Costs	-	-	-	-	-	0.000	-	-	0.050	-	-	0.093	-	-	-	-	-	0.093
IV&V	-	-	-	-	-	0.000	-	-	0.450	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.000	-	-	1.000	-	-	3.647	-	-	-	-	-	3.647
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	3.400	-	-	6.647	-	-	-	-	-	6.647

Remarks:

Procurement funds needed to fund remaining ARTS Test Program Set (TPS) and ICS contract and to fund ARTS Recovery Strategy. Complete TPS Development and perform regression testing for delivered Test Program Sets

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Item Number / Title [DODIC]: B-1B Advanced REW Test Station (ARTS)

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

Secondary Distribution		FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	3.400	6.647	-	6.647
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	3.400	6.647	-	6.647

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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																				
MJ-1C	A		-	-	-	0.096	20	1.920	0.096	10	0.960	-	-	3.015	-	-	1.500	-	-	4.515
<i>Secondary Distribution</i>																				
AF			-	-	-	-	20	1.920	-	10	0.960	-	-	2.062	-	-	1.500	-	-	3.562
AFNG			-	-	-	-	-	-	-	-	-	-	-	0.685	-	-	-	-	-	0.685
AFR			-	-	-	-	-	-	-	-	-	-	-	0.268	-	-	-	-	-	0.268
MHU-83	A		-	-	-	0.127	14	1.778	-	-	-	-	-	2.748	-	-	1.500	-	-	4.248
<i>Secondary Distribution</i>																				
AF			-	-	-	-	14	1.778	-	-	-	-	-	2.062	-	-	1.500	-	-	3.562
AFNG			-	-	-	-	-	-	-	-	-	-	-	0.686	-	-	-	-	-	0.686
AFR			-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Hardware			-	-	-	-	-	3.698	-	-	0.960	-	-	5.763	-	-	3.000	-	-	8.763
Support Cost																				
PMA Other Government Charges	A		-	-	-	-	-	0.026	-	-	0.040	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.026	-	-	0.040	-	-	-	-	-	-	-	-	-
PMA: Other Contractor Services	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost			-	-	-	-	-	0.026	-	-	0.040	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	3.724	-	-	1.000	-	-	5.763	-	-	3.000	-	-	8.763

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.

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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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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																				
Aircraft Engine Trailers	A		-	-	-	-	-	-	-	-	-	-	-	6.607	-	-	-	-	-	6.607
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	6.607	-	-	-	-	-	6.607
Miscellaneous AEHE (ERI/ECAOS)	A		-	-	-	-	-	-	-	0.140	-	-	-	-	-	-	0.142	-	-	0.142
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	0.140	-	-	-	-	-	-	0.142	-	-	0.142
Subtotal: Hardware			-	-	-	-	-	-	-	0.140	-	-	-	6.607	-	-	0.142	-	-	6.749
Total			-	-	-	-	-	-	-	0.140	-	-	-	6.607	-	-	0.142	-	-	6.749

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

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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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)		
Secondary Power Unit																						
Secondary Power Unit	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.971	-	-	0.971
<i>Secondary Distribution</i>																						
AF			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.971	-	-	0.971
Subtotal: Secondary Power Unit			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.971	-	-	0.971
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.971	-	-	0.971

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 2021 Air Force															Date: February 2020							
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 STANDS							
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)		
Aircraft Maintenance Stands																						
New Item	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.001	-	-	1.001
<i>Secondary Distribution</i>																						
AF			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.001	-	-	1.001
Subtotal: Aircraft Maintenance Stands			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.001	-	-	1.001
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.001	-	-	1.001

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 2021 Air Force **Date:** February 2020

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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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																				
Testers: Avionics, Radar, Radio	A		-	-	-	-	-	0.000	-	-	6.326	-	-	3.878	-	-	-	-	-	3.878
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	2.000	-	-	3.878	-	-	-	-	-	3.878
AFNG			-	-	-	-	-	-	-	-	2.788	-	-	-	-	-	-	-	-	-
AFR			-	-	-	-	-	-	-	-	1.538	-	-	-	-	-	-	-	-	-
Optical Devices	A		-	-	-	-	-	-	-	-	11.023	-	-	3.878	-	-	-	-	-	3.878
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	5.400	-	-	3.878	-	-	-	-	-	3.878
AFNG			-	-	-	-	-	-	-	-	4.087	-	-	-	-	-	-	-	-	-
AFR			-	-	-	-	-	-	-	-	1.536	-	-	-	-	-	-	-	-	-
Misc Electronic Devices	A		-	-	-	-	-	-	-	-	4.489	-	-	3.878	-	-	-	-	-	3.878
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	1.494	-	-	3.878	-	-	-	-	-	3.878
AFNG			-	-	-	-	-	-	-	-	2.241	-	-	-	-	-	-	-	-	-
AFR			-	-	-	-	-	-	-	-	0.754	-	-	-	-	-	-	-	-	-
Subtotal: Hardware			-	-	-	-	-	0.000	-	-	21.838	-	-	11.634	-	-	-	-	-	11.634
Support																				
PMA: Other Contractor Services	A		-	-	-	-	-	-	-	-	0.300	-	-	0.300	-	-	-	-	-	0.300
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	0.300	-	-	0.300	-	-	-	-	-	0.300
PMA: Other Government Charges	A		-	-	-	-	-	-	-	-	0.050	-	-	0.050	-	-	-	-	-	0.050
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	0.050	-	-	0.050	-	-	-	-	-	0.050
Subtotal: Support			-	-	-	-	-	-	-	-	0.350	-	-	0.350	-	-	-	-	-	0.350
Total			-	-	-	-	-	0.000	-	-	22.188	-	-	11.984	-	-	-	-	-	11.984

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 2021 Air Force **Date:** February 2020

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

Program funding previously captured under BP12 ITEMS LESS THAN 5 MILLION DOLLARS P-40a: FAST CHARACTERIZATION TOOL (FACT)

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Modification Number / Title: 1 / MHU-196/204 SLEP

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	31.796	6.979	9.230	11.930	0.000	11.930	25.082	51.743	51.812	0.000	0.000	188.572
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	31.796	6.979	9.230	11.930	0.000	11.930	25.082	51.743	51.812	0.000	0.000	188.572
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	31.796	6.979	9.230	11.930	0.000	11.930	25.082	51.743	51.812	0.000	0.000	188.572

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

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

Description:

The 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.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force	Date: February 2020
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Modification Number / Title: 1 / MHU-196/204 SLEP
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Other Government Cost includes: Testing required for Nuclear Certification and unknown miscellaneous support/expenses associated with the Nuclear Certification.

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.979	9.230	11.930	-	11.930	25.082	51.743	51.812	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	6.979	9.230	11.930	0.000	11.930	25.082	51.743	51.812	0.000

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Exhibit P-3a, Individual Modification: PB 2021 Air Force										Date: February 2020			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1					P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip					Modification Number / Title: 1 / MHU-196/204 SLEP			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: MHU-196, 204				Modification Type: Service Life Extension				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> MLT Mod Kit													
B Kits													
Recurring													
MLT Mod Kit:EQUIPMENT Group B (Active)	- / 6.848	- / -	- / -	9 / 11.584	- / -	9 / 11.584	17 / 24.892	25 / 51.517	28 / 51.584	- / -	- / -	79 / 146.425	
<i>Subtotal: Recurring</i>	- / 6.848	- / -	- / -	- / 11.584	- / -	- / 11.584	- / 24.892	- / 51.517	- / 51.584	- / -	- / -	- / 146.425	
<i>Subtotal: MLT Mod Kit</i>	- / 6.848	- / -	- / -	- / 11.584	- / -	- / 11.584	- / 24.892	- / 51.517	- / 51.584	- / -	- / -	- / 146.425	
<i>Subtotal: Procurement, All Modification Items</i>	- / 6.848	- / -	- / -	- / 11.584	- / -	- / 11.584	- / 24.892	- / 51.517	- / 51.584	- / -	- / -	- / 146.425	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / 17.573	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.573	
GROUP B: TOTAL NONRECURRING	- / 22.283	- / 6.152	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.435	
SUPPORT-EQUIP	- / 12.032	- / 0.692	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.724	
PMA - Other Gov't Costs	- / 0.633	- / 0.135	- / 0.107	- / 0.109	- / -	- / 0.109	- / 0.111	- / 0.113	- / 0.114	- / -	- / -	- / 1.322	
OTHER GOVT	- / -	- / -	- / 1.550	- / 0.237	- / -	- / 0.237	- / 0.079	- / 0.113	- / 0.114	- / -	- / -	- / 2.093	
<i>Subtotal: Support</i>	- / 24.948	- / 6.979	- / 9.230	- / 0.346	- / -	- / 0.346	- / 0.190	- / 0.226	- / 0.228	- / -	- / -	- / 42.147	
Installation													
<i>Modification Item 1 of 1:</i> MLT Mod Kit	- / -	- / -	- / -	9 / 0.000	- / -	9 / 0.000	17 / 0.000	25 / 0.000	28 / 0.000	- / -	- / -	79 / 0.000	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	9 / 0.000	- / -	9 / 0.000	17 / -	25 / -	28 / -	- / -	- / -	79 / 0.000	
Total													
Total Cost (Procurement + Support + Installation)	31.796	6.979	9.230	11.930	0.000	11.930	25.082	51.743	51.812	0.000	0.000	188.572	

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Exhibit P-3a, Individual Modification: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Modification Number / Title: 1 / MHU-196/204 SLEP
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

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 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Contract Dates			Apr 2021	Apr 2022	Apr 2023	Apr 2024	
Delivery Dates			Aug 2021	Aug 2022	Aug 2023	Aug 2024	

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	9 / 0.000	- / -	9 / 0.000	- / -	- / -	- / -	- / -	- / -	9 / 0.000
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.000	- / -	- / -	- / -	- / -	17 / 0.000
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.000	- / -	- / -	- / -	25 / 0.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.000	- / -	- / -	28 / 0.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	9 / 0.000	- / -	9 / 0.000	17 / 0.000	25 / 0.000	28 / 0.000	- / -	- / -	79 / 0.000

Installation Schedule

	PYS	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	2	2	3	2	4	4	5	4	5	8	6	6	6	6	8	8	-	-	-	-	0	79
Out	0	-	-	-	-	-	-	-	-	-	-	1	3	3	2	3	5	4	4	8	6	8	4	8	6	8	6	-	-	0	79

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Ammo Loaders																				
Ammo Loaders	A		-	-	-	-	-	-	-	-	-	-	-	3.886	-	-	2.500	-	-	6.386
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		-	1.389		-	2.500		-	3.889
AFNG				-	-		-	-		-	-		-	0.000		-	-		-	0.000
AFR				-	-		-	-		-	-		-	2.497		-	-		-	2.497
Subtotal: Ammo Loaders			-	-	-	-	-	-	-	-	-	-	-	3.886	-	-	2.500	-	-	6.386
Total			-	-	-	-	-	-	-	-	-	-	-	3.886	-	-	2.500	-	-	6.386

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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1 **P-1 Line Item Number / Title:** 000071 / Aircraft Replacement Support Equip **Aggregated Items Title:** ATS - Base Maint & Spt Eq

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Base Maintenance and Support Equipment																				
Base Maintenance and Support Equipment	A		-	-	-	-	-	10.044	-	-	0.444	-	-	7.453	-	-	-	-	-	7.453
<i>Secondary Distribution</i>																				
AF				-	-		-	10.044		-	0.444		-	7.453		-	-		-	7.453
Test Set, Transponder (IFF)	A		-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.100		-	-		-	-		-	-		-	-
Common Munitions Built-in Test Reprogramming Equipment	A		-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.100		-	-		-	-		-	-		-	-
Cyber Security/Support	A		-	-	-	-	-	0.100	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
<i>Secondary Distribution</i>																				
AF				-	-		-	0.100		-	0.100		-	0.100		-	-		-	0.100
Armament Test Sets	A		-	-	-	-	-	0.100	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
<i>Secondary Distribution</i>																				
AF				-	-		-	0.100		-	0.100		-	0.100		-	-		-	0.100
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.100	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
<i>Secondary Distribution</i>																				
AF				-	-		-	0.100		-	0.100		-	0.100		-	-		-	0.100
Subtotal: Base Maintenance and Support Equipment			-	-	-	-	-	10.544	-	-	0.744	-	-	7.753	-	-	-	-	-	7.753
Total			-	-	-	-	-	10.544	-	-	0.744	-	-	7.753	-	-	-	-	-	7.753

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

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.

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, 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 Set 70/A (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)

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
TMDE																				
TMDE	A		-	-	-	-	-	0.100	-	-	2.500	-	-	6.603	-	-	-	-	-	6.603
<i>Secondary Distribution</i>																				
AF				-	-	-	-	0.100		-	2.500		-	2.279		-	-		-	2.279
AFNG				-	-	-	-	0.000		-	0.000		-	2.594		-	-		-	2.594
AFR				-	-	-	-	0.000		-	0.000		-	1.730		-	-		-	1.730
Subtotal: TMDE			-	-	-	-	-	0.100	-	-	2.500	-	-	6.603	-	-	-	-	-	6.603
Total			-	-	-	-	-	0.100	-	-	2.500	-	-	6.603	-	-	-	-	-	6.603

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 TMDE and calibrator instruments. 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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Aggregated Items Title: B-52 MUSTANG Tester
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
B52 MUSTANG																				
Kits and Implementation	A		-	-	-	-	-	0.000	0.125	12	1.500	-	-	0.664	-	-	-	-	-	0.664
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000		12	1.500		-	0.664		-	-	-	-	0.664
Subtotal: B52 MUSTANG			-	-	-	-	-	0.000	-	-	1.500	-	-	0.664	-	-	-	-	-	0.664
Total			-	-	-	-	-	0.000	-	-	1.500	-	-	0.664	-	-	-	-	-	0.664

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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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Item Number / Title [DODIC]: Bomber Armament Tester

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	6.600	12.080	-	12.080
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	6.600	12.080	-	12.080
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.000	6.600	12.080	-	12.080

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

Initial Spares (\$ in Millions)	-	-	-	1.097	-	1.097
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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - BOMBER ARMAMENT TESTER (BAT) Cost																		
Recurring Cost																		
BAT Production	-	-	-	-	-	0.000	-	-	6.500	-	-	11.980	-	-	-	-	-	11.980
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	6.500	-	-	11.980	-	-	-	-	-	11.980
<i>Subtotal: Hardware - BOMBER ARMAMENT TESTER (BAT) Cost</i>	-	-	-	-	-	0.000	-	-	6.500	-	-	11.980	-	-	-	-	-	11.980
Support - BOMBER ARMAMENT TESTER (BAT) Cost																		
PMA OPher govt cost	-	-	-	-	-	0.000	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Support - BOMBER ARMAMENT TESTER (BAT) Cost</i>	-	-	-	-	-	0.000	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	6.600	-	-	12.080	-	-	-	-	-	12.080

Remarks:
Funds will cover Bomber Armament Tester (BAT) production units and PMA cost associated with the BAT program and the Automatic Test System program office.

Secondary Distribution		FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	6.600	12.080	-	12.080
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2021 Air Force				Date: February 2020		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1		P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip		Item Number / Title [DODIC]: Bomber Armament Tester		
ID Code (A=Service Ready, B=Not Service Ready) : B			MDAP/MAIS Code:			
Secondary Distribution		FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Secondary Distribution	Total Obligation Authority	0.000	6.600	12.080	-	12.080

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force															Date: February 2020				
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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 AND VEHICLES (SEV)																				
FAST CHARACTERIZATION TOOL (FACT) 4920015711970RN (SEV)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FAST CHARACTERIZATION TOOL (FACT) 4920015654320RN (SEV)	A		-	-	-	0.342	2	0.684	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	2	0.684	-	-	-	-	-	-	-	-	-	-	-	-	
FLIGHT LINE GENERATORS (SEV)	A		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	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		-	-	-	0.250	2	0.500	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	2	0.500	-	-	-	-	-	-	-	-	-	-	-	-	
MISCELLANEOUS AGE	A		-	-	-	-	-	27.919	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	27.919	-	-	-	-	-	-	-	-	-	-	-	
PMA CONTRACTOR SERVICES	A		-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	
PMA OTHER GOVERNMENT COSTS (SEV)	A		-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force															Date: February 2020				
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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
ADVANCED CONTROL TESTER (ACT) (SEV)	A		-	-	-	0.370	10	3.698	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	10	3.698	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: SUPPORT EQUIPMENT AND VEHICLES (SEV)			-	-	-	-	-	33.001	-	-	-	-	-	-	-	-	-	-	-	
AIR FORCE SUSTAINMENT CENTER (OC-ALC)																				
FSC 1660 AIRCRAFT AIR CONDITIONING, HEAT AND PRESSURIZING EQUIPMENT (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 1730 AIRCRAFT GROUND SERVICING EQUIPMENT (OC)	A		-	-	-	0.020	8	0.160	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	8	0.160	-	-	-	-	-	-	-	-	-	-	-	-	
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		-	-	-	0.020	5	0.100	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	5	0.100	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 4935 GUIDED MISSILE MAINTENANCE, REP, AND CHECKOUT SPECIALIZED EQUIPMENT (OC)	A		-	-	-	0.007	4	0.028	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	4	0.028	-	-	-	-	-	-	-	-	-	-	-	-	
FSC 5120 HAND TOOLS, NON-	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force															Date: February 2020				
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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
EDGED, NON-POWERED (OC)																				
FSC 5130 HAND TOOLS, POWER DRIVE (OC)	A		-	-	-	0.005	1	0.005	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.005		-	-		-	-		-	-		-	-
FSC 5180 SPECIALIZED EQUIPMENTS, KITS, OUTFITS/HAND TOOLS (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FSC 6625 ELECTRICAL AND ELECTRONIC PROPERTIES MEASURING, TEST INSTRUMENTS (OC)	A		-	-	-	0.002	1	0.002	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.002		-	-		-	-		-	-		-	-
FSC 6635 PHYSICAL PROPERTIES TESTING AND INSPECTION EQUIPMENT (OC)	A		-	-	-	0.006	2	0.012	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		2	0.012		-	-		-	-		-	-		-	-
Subtotal: AIR FORCE SUSTAINMENT CENTER (OC-ALC)			-	-	-	-	-	0.307	-	-	-	-	-	-	-	-	-	-	-	-
OTHER																				
F-16 SQUADRON	A		-	-	-	-	-	0.521	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.521		-	-		-	-		-	-		-	-
C-130 MSN Ready Ops	A		-	-	-	-	-	0.728	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.728		-	-		-	-		-	-		-	-
Rivot Joint Mods	A		-	-	-	-	-	-	-	-	1.249	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	1.249		-	-		-	-		-	-
Subtotal: OTHER			-	-	-	-	-	1.249	-	-	1.249	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	34.557	-	-	1.249	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force		Date: February 2020
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

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.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Item Number / Title [DODIC]: COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	12.009	7.000	15.229	-	15.229
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	12.009	7.000	15.229	-	15.229
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	12.009	7.000	15.229	-	15.229

(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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost																		
Recurring Cost																		
Mobile Maintenance Terminal	-	-	-	0.015	265	3.975	0.015	265	3.975	0.015	350	5.250	-	-	-	0.015	350	5.250
Cable Sets and Case	-	-	-	0.049	158	7.783	0.050	60	3.000	-	-	-	-	-	-	-	-	-
NIM Production & Assembly	-	-	-	-	-	0.000	-	-	-	-	-	9.586	-	-	-	-	-	9.586
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>11.758</i>	-	-	<i>6.975</i>	-	-	<i>14.836</i>	-	-	-	-	-	<i>14.836</i>
<i>Subtotal: Hardware - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</i>	-	-	-	-	-	<i>11.758</i>	-	-	<i>6.975</i>	-	-	<i>14.836</i>	-	-	-	-	-	<i>14.836</i>
Software - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost																		
Recurring Cost																		
AAG Development (Re-host)	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>0.000</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</i>	-	-	-	-	-	<i>0.000</i>	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Item Number / Title [DODIC]: COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Logistics - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost																		
Non Recurring Cost																		
Drawings	-	-	-	-	-	-	-	-	-	-	-	0.142	-	-	-	-	-	0.142
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.142	-	-	-	-	-	0.142
<i>Subtotal: Logistics - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.142	-	-	-	-	-	0.142
Support - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost																		
PMA Other Government Services	-	-	-	-	-	0.251	0.025	1	0.025	-	-	0.251	-	-	-	-	-	0.251
<i>Subtotal: Support - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</i>	-	-	-	-	-	0.251	-	-	0.025	-	-	0.251	-	-	-	-	-	0.251
Gross/Weapon System Cost	-	-	-	-	-	12.009	-	-	7.000	-	-	15.229	-	-	-	-	-	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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	12.009	7.000	15.229	-	15.229
Total:	Quantity	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Item Number / Title [DODIC]: COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Secondary Distribution		FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Secondary Distribution	Total Obligation Authority	12.009	7.000	15.229	-	15.229

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
Large & Small Flightline Generator	A		-	-	-	-	-	2.860	-	-	0.780	-	-	3.097	-	-	-	-	-	3.097
<i>Secondary Distribution</i>																				
AF				-	-		-	2.860		-	0.780		-	-		-	-		-	-
AFNG				-	-		-	0.000		-	0.000		-	0.000		-	-		-	0.000
AFR				-	-		-	0.000		-	0.000		-	3.097		-	-		-	3.097
Large & Small Flightline Generator (EDI/ECAOS)	A		-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	2.000	-	-	2.000
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	0.000		-	0.000		-	2.000		-	2.000
Subtotal: Uncategorized			-	-	-	-	-	2.860	-	-	0.780	-	-	3.097	-	-	2.000	-	-	5.097
Total			-	-	-	-	-	2.860	-	-	0.780	-	-	3.097	-	-	2.000	-	-	5.097

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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Aggregated Items Title: FLIGHTLINE COMPRESSORS
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
End Item																				
Small Compressor	A		-	-	-	-	-	-	-	-	1.869	-	-	-	-	-	2.001	-	-	2.001
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	1.869	-	-	-	-	-	2.001	-	-	2.001
Subtotal: End Item			-	-	-	-	-	-	-	-	1.869	-	-	-	-	-	2.001	-	-	2.001
Total			-	-	-	-	-	-	-	-	1.869	-	-	-	-	-	2.001	-	-	2.001

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 2021 Air Force **Date:** February 2020

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
HP-SGNSC	A		-	-	-	-	-	0.000	-	-	1.770	-	-	-	-	-	2.001	-	-	2.001
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	1.770	-	-	-	-	-	2.001	-	-	2.001
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	1.770	-	-	-	-	-	2.001	-	-	2.001
Total			-	-	-	-	-	0.000	-	-	1.770	-	-	-	-	-	2.001	-	-	2.001

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 2021 Air Force															Date: February 2020				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1						P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip						Aggregated Items Title: Flightline Heating, Ventilating, Air Conditioning							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
End Item Costs																				
Large & Small Flightline HVAC	A		-	-	-	-	-	2.542	-	-	0.566	-	-	16.302	-	-	-	-	-	16.302
<i>Secondary Distribution</i>																				
AF				-	-	-	-	2.542		-	0.566		-	6.537		-	-		-	6.537
AFNG				-	-	-	-	0.000		-	0.000		-	7.024		-	-		-	7.024
AFR				-	-	-	-	0.000		-	0.000		-	2.741		-	-		-	2.741
Large & Small Flightline HVAC (EDI/ ECAOS)	A		-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	5.997	-	-	5.997
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-		-	0.000		-	0.000		-	5.997		-	5.997
Subtotal: End Item Costs			-	-	-	-	-	2.542	-	-	0.566	-	-	16.302	-	-	5.997	-	-	22.299
Support End Item Costs																				
PMA: Other Government Charges	A		-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-		-	0.000		-	0.000		-	-		-	0.000
PMA: Other Contractor Services	A		-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-		-	0.000		-	0.000		-	-		-	0.000
Subtotal: Support End Item Costs			-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	2.542	-	-	0.566	-	-	16.302	-	-	5.997	-	-	22.299

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

Remarks:

Unit Costs for FY20 are assumed and subject to change.

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).

FY20 procurement dollars support the European Contingency Air Operations System (ECAOS)/Deployable Air Base System (DABS) - Facilities, Equipment, and Vehicles (FEV).

In FY19, the program name formally referenced as Flight Line Air Conditioning and A/M32C-25 Large Air Conditioner is updated to Flightline Heating, Ventilating and Air Conditioning (HVAC).

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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																				
UNIVERSAL TRIPLE HYDRAULIC TEST STAND (3 SYS) (DIESEL)	A		-	-	-	0.195	45	8.775	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		45	8.775		-	0.000		-	0.000		-	-	-	-	0.000
UNIVERSAL TRIPLE HYDRAULIC TEST STAND (3 SYS) (ELECTRIC)	A		-	-	-	0.114	10	1.140	-	-	-	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		10	1.140		-	-		-	0.000		-	-	-	-	0.000
UNIVERSAL HYDRAULIC TEST STAND (2 SYS) (DIESEL)	A		-	-	-	0.116	20	2.320	-	-	0.000	-	-	1.912	-	-	3.000	-	-	4.912
<i>Secondary Distribution</i>																				
AF				-	-		20	2.320		-	-		-	1.727		-	3.000		-	4.727
AFNG				-	-		-	-		-	-		-	0.052		-	-		-	0.052
AFR				-	-		-	0.000		-	0.000		-	0.133		-	-		-	0.133
UNIVERSAL HYDRAULIC TEST STAND (2 SYS) (ELECTRIC)	A		-	-	-	0.114	10	1.140	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		10	1.140		-	0.000		-	0.000		-	-		-	0.000
AFNG				-	-		-	0.000		-	-		-	-		-	-		-	-
AFR				-	-		-	0.000		-	0.000		-	-		-	-		-	-
Subtotal: Hardware			-	-	-	-	-	13.375	-	-	0.000	-	-	1.912	-	-	3.000	-	-	4.912
Total			-	-	-	-	-	13.375	-	-	0.000	-	-	1.912	-	-	3.000	-	-	4.912

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

Remarks:
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.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force															Date: February 2020				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1					P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip					Aggregated Items Title: JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER (JSECST)									

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Joint Service Electronic Combat Systems Tester (JSECST)																				
Joint Service Electronic Combat Systems Tester (JSECST)	A		-	-	-	-	-	-	0.402	13	5.226	0.470	2	0.940	-	-	-	0.470	2	0.940
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		13	5.226		2	0.940		-	-		2	0.940
AFNG			-	-	-	-	-	-		-	-		-	0.000		-	-		-	0.000
PMA Other Government Costs	A		-	-	-	-	-	-	-	-	0.274	-	-	0.053	-	-	-	-	-	0.053
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		-	0.274		-	0.053		-	-		-	0.053
PMA Other Government Support	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kit Installations	A		-	-	-	-	-	-	0.004	75	0.300	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		75	0.300		-	-		-	-		-	-
Subtotal: Joint Service Electronic Combat Systems Tester (JSECST)			-	-	-	-	-	-	-	-	5.800	-	-	0.993	-	-	-	-	-	0.993
Total			-	-	-	-	-	-	-	-	5.800	-	-	0.993	-	-	-	-	-	0.993

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.

Follow-on contract awarded May 2019. FY20 unit cost is based on current contract in place.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force														Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1						P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip						Aggregated Items Title: 'MISC AEROSPACE GROUND EQUIP (AGE)							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
End Items																				
Various Misc AGE Equipment	A		-	-	-	-	-	6.260	-	-	0.900	-	-	-	-	-	3.001	-	-	3.001
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	6.260	-	-	0.900	-	-	-	-	-	3.001	-	-	3.001
Subtotal: End Items			-	-	-	-	-	6.260	-	-	0.900	-	-	-	-	-	3.001	-	-	3.001
Total			-	-	-	-	-	6.260	-	-	0.900	-	-	-	-	-	3.001	-	-	3.001

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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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force															Date: February 2020				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1										P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip					Aggregated Items Title: Nondestructive Inspection (NDI) Joint Oil Analysis Program (JOAP)				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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																				
Spectrometer Replacement	A		-	-	-	-	-	-	-	-	16.800	-	-	7.983	-	-	-	-	-	7.983
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	15.300	-	-	7.983	-	-	-	-	-	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		-	-	-	-	-	0.000	-	-	0.524	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.393	-	-	-	-	-	-	-	-	-
AFNG			-	-	-	-	-	0.000	-	-	0.120	-	-	-	-	-	-	-	-	-
AFR			-	-	-	-	-	0.000	-	-	0.011	-	-	-	-	-	-	-	-	-
Subtotal: Hardware			-	-	-	-	-	0.000	-	-	25.626	-	-	7.983	-	-	-	-	-	7.983
Support																				
PMA: Other Contractor Services	A		-	-	-	-	-	0.000	-	-	0.300	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.300	-	-	-	-	-	-	-	-	-
PMA: Other Government Charges	A		-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-
Subtotal: Support			-	-	-	-	-	0.000	-	-	0.350	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	0.000	-	-	25.976	-	-	7.983	-	-	-	-	-	7.983

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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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Aggregated Items Title: 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-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Item Number / Title [DODIC]: SMALL MUNITIONS TRAILERS RECAP (MHU-110/141)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	10.910	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	10.910	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	10.910	-	-	-	-

(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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - SMALL MUNITIONS TRAILERS RECAP (MHU-110/141) Cost																		
Non Recurring Cost																		
MHU-110/141 Trailers	-	-	-	0.096	4	0.384	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.384	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - SMALL MUNITIONS TRAILERS RECAP (MHU-110/141) Cost</i>	-	-	-	-	-	0.384	-	-	-	-	-	-	-	-	-	-	-	-
Support - SMALL MUNITIONS TRAILERS RECAP (MHU-110/141) Cost																		
First Article Testing MHU-110/141	-	-	-	-	-	5.477	-	-	-	-	-	-	-	-	-	-	-	-
Data MHU-110/141	-	-	-	-	-	4.946	-	-	-	-	-	-	-	-	-	-	-	-
PMA Other Government Costs MHU-110/141	-	-	-	-	-	0.103	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - SMALL MUNITIONS TRAILERS RECAP (MHU-110/141) Cost</i>	-	-	-	-	-	10.526	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	10.910	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Program moved from BP120000 to BPAC 845990 Base Maintenance & Support Equipment, effective FY20

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1	P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip	Item Number / Title [DODIC]: SMALL MUNITIONS TRAILERS RECAP (MHU-110/141)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Secondary Distribution		FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	10.910	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	10.910	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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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: 0101127F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	1.763	1.403	1.683	-	1.683	1.684	15.774	38.838	39.548	-	100.693
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	1.763	1.403	1.683	-	1.683	1.684	15.774	38.838	39.548	-	100.693
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	1.763	1.403	1.683	-	1.683	1.684	15.774	38.838	39.548	-	100.693

(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.

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 2021 Air Force **Date:** February 2020

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
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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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	35.861	42.234	46.734	-	46.734	47.690	48.542	49.417	50.320	-	320.798
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	35.861	42.234	46.734	-	46.734	47.690	48.542	49.417	50.320	-	320.798
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	35.861	42.234	46.734	-	46.734	47.690	48.542	49.417	50.320	-	320.798

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in 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 travel of B-2 peculiar support equipment (PSE), Special Test Equipment (STE) and their sub-components for B-2. Software Sustainment in support 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 tests before deployment to the test aircraft and/or the operational fleet.

Other Post Production Support (PPS) provides funds to procurement, replacement, upgrade, test, integrate and travel of other PSE, STE, support systems and their sub-components 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 B-2A.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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				- / -	- / 35.861	- / 42.234	- / 46.734	- / -	- / 46.734
P-40	Total Gross/Weapon System Cost				- / -	- / 35.861	- / 42.234	- / 46.734	- / -	- / 46.734

*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, Special Test Equipment and their sub-components required to support the WSSC as well as Programmed Depot Maintenance, Test Range, and AFGSC support facilities.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 2 **P-1 Line Item Number / Title:** B002B0 / B-2B **Aggregated Items Title:** B-2B

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
Legacy ICS; Program Code ap5000	A		-	-	-	-	-	27.328	-	-	29.478	-	-	33.769	-	-	-	-	-	33.769
WSSC; Program Code bem000	A		-	-	-	-	-	8.533	-	-	12.756	-	-	12.965	-	-	-	-	-	12.965
Subtotal: Uncategorized			-	-	-	-	-	35.861	-	-	42.234	-	-	46.734	-	-	-	-	-	46.734
Total			-	-	-	-	-	35.861	-	-	42.234	-	-	46.734	-	-	-	-	-	46.734

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 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	12.819	2.341	1.034	-	1.034	5.756	5.859	0.104	0.106	-	28.019
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	12.819	2.341	1.034	-	1.034	5.756	5.859	0.104	0.106	-	28.019
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	12.819	2.341	1.034	-	1.034	5.756	5.859	0.104	0.106	-	28.019

(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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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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		
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.		
Justification: Post Production Support funds Interim Contract Support (ICS) are required until the depot is established for CONECT.		

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	10.114	124.805	0.000	-	0.000	0.000	0.000	0.000	0.000	-	134.919
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	10.114	124.805	0.000	-	0.000	0.000	0.000	0.000	0.000	-	134.919
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	10.114	124.805	0.000	-	0.000	0.000	0.000	0.000	0.000	-	134.919

(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.

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 2021 funding requested.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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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: 0305207F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	170.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	170.075
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	170.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	170.075
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	170.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	170.075

(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 will be used to replace 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 (ex. FY2021) funding requested.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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: E011A0 / 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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	63.419 ⁽¹⁾	-	63.419	62.846	23.250	6.106	5.922	-	161.543
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	63.419	-	63.419	62.846	23.250	6.106	5.922	-	161.543
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	63.419	-	63.419	62.846	23.250	6.106	5.922	-	161.543

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

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

Description:

Battlefield Airborne 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.

BACN Payload and integration procured out of P-1 Line Item #63 OTHACF/Other Aircraft in PE 27610F shred 8733.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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:** E011A0 / E-11 BACN/HAG

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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	E-11 BACN/HAG				- / -	- / 0.000	- / 0.000	- / 63.419	- / -	- / 63.419
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 0.000	- / 63.419⁽¹⁾	- / -	- / 63.419

*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, Category Aircraft Procurement Item E-11A, is a new start.

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 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 procurement and integration activities support out of P-1 Line Item #63 OTHACF/Other Aircraft in PE 27610F shred 8733.

Footnotes:

⁽¹⁾ Budgeted quantities should be 1 for FY2021, 1 for FY2022, 1 for FY2023, 1 for FY2024, and 1 for FY2025

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 2	P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG	Aggregated Items Title: E-11 BACN/HAG
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Program Management																				
PMA Contractor Services	A		-	-	-	-	-	0.000	-	-	0.000	-	-	3.348	-	-	-	-	-	3.348
Subtotal: Program Management			-	-	-	-	-	0.000	-	-	0.000	-	-	3.348	-	-	-	-	-	3.348
Aircraft Procurement																				
E-11A	A		-	-	-	-	-	0.000	-	-	0.000	-	-	60.071	-	-	-	-	-	60.071
Subtotal: Aircraft Procurement			-	-	-	-	-	0.000	-	-	0.000	-	-	60.071	-	-	-	-	-	60.071
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	63.419	-	-	-	-	-	63.419

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 2021 Air Force **Date:** February 2020

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
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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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	7.472	2.589	2.632	-	2.632	2.685	2.734	0.000	0.000	-	18.112
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	7.472	2.589	2.632	-	2.632	2.685	2.734	0.000	0.000	-	18.112
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	7.472	2.589	2.632	-	2.632	2.685	2.734	0.000	0.000	-	18.112

(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.

Justification:

IATs Funding provides continued support of the Electronic Systems Test Set (ESTS). Grounding of aircraft would result without this repair support.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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		

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.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	4.918	11.402	14.163	-	14.163	10.664	9.128	9.611	10.285	-	70.171
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	4.918	11.402	14.163	-	14.163	10.664	9.128	9.611	10.285	-	70.171
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	4.918	11.402	14.163	-	14.163	10.664	9.128	9.611	10.285	-	70.171

(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

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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				- / -	- / 4.918	- / 11.402	- / 14.163	- / -	- / 14.163
P-40	Total Gross/Weapon System Cost				- / -	- / 4.918	- / 11.402	- / 14.163	- / -	- / 14.163

*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, 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 2021 Air Force **Date:** February 2020

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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
Production Tooling Storage Management	A		-	-	-	-	-	-	-	-	-	-	-	0.444	-	-	-	-	-	0.444
AESA	A		-	-	-	-	-	-	-	-	5.067	-	-	6.509	-	-	-	-	-	6.509
Mode 5	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avionics PGSE	A		-	-	-	-	-	3.309	-	-	5.735	-	-	5.161	-	-	-	-	-	5.161
AGCAS	A		-	-	-	-	-	1.009	-	-	-	-	-	-	-	-	-	-	-	-
Digital Radar Warning Receiver	A		-	-	-	-	-	-	-	-	-	-	-	1.243	-	-	-	-	-	1.243
Production Line Shutdown	A		-	-	-	-	-	0.600	-	-	0.600	-	-	-	-	-	-	-	-	-
MMC/PDG	A		-	-	-	-	-	-	-	-	-	-	-	0.679	-	-	-	-	-	0.679
Comm Suite Upgrade	A		-	-	-	-	-	-	-	-	-	-	-	0.127	-	-	-	-	-	0.127
Subtotal: Uncategorized			-	-	-	-	-	4.918	-	-	11.402	-	-	14.163	-	-	-	-	-	14.163
Total			-	-	-	-	-	4.918	-	-	11.402	-	-	14.163	-	-	-	-	-	14.163

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 2021 Air Force **Date:** February 2020

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: F02200 / F-22A
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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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	64.489	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	64.489
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	64.489	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	64.489
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	64.489	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	64.489

(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 will procure necessary support equipment for aircraft and depot maintenance actions, special test equipment for component testing and non-recurring engineering activities, and mission critical replenishment spares for the projected service life of the F-22 (2055+). The Raptor is the USAF's top priority for ensuring air dominance in support of Joint Forces' operational access and homeland defense for the next 40+ years. The F-22 is the first operational multi-mission fighter that combines stealth, super cruise, advanced maneuverability and integrated avionics to make it the most capable anti-access, area denial combat aircraft.

Funding for this exhibit is contained in PE 0207138F.

Justification:

The F-22 funding procures the following requirements, but is not limited to those listed below:

F-22 Mission Critical Replenishment Spares (MCRS) commensurate with the service life of the F-22 and increases in the fleet's annual flying hour program. Spares include leading edge flaps, wings, wing tips, horizontal stabilizers, main weapons bay doors, and other large surface area components to support expedient repairs from aircraft mishaps or condemnation identified during the fleet-wide reversion repair. The majority of these spares are long-lead items with a diminishing manufacturing base.

Funding also supports the procurement of test stations, necessary to test and troubleshoot aircraft components as well as procurement of support equipment required to enable on/off aircraft maintenance.

Funding may be used to resolve emerging safety of flight and DMS issues, accommodate technology insertion, respond to field support equipment issues, and fulfill Federal Aviation Administration (FAA) or other mandates to ensure continued aircrew safety maintenance capability and mission effectiveness.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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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: 0207701F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	9.688	0.000	4.595	-	4.595	0.000	0.000	0.000	0.000	-	14.283
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	9.688	0.000	4.595	-	4.595	0.000	0.000	0.000	0.000	-	14.283
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	9.688	0.000	4.595	-	4.595	0.000	0.000	0.000	0.000	-	14.283

(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:

FY 2021 funding procures and integrates hardware/software necessary to meet the objectives of the VTTC, to include the MITL stations.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	96.314	40.641	47.246	32.585	-	32.585	63.487	66.819	15.962	0.000	16.300	379.354
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	96.314	40.641	47.246	32.585	-	32.585	63.487	66.819	15.962	0.000	16.300	379.354
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	96.314	40.641	47.246	32.585	-	32.585	63.487	66.819	15.962	0.000	16.300	379.354

(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	-	3.300	3.504	-	-	-	-	6.804
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Beginning in FY21, to support the divestiture of the Block 20/30 aircraft, efforts will be pivoted to focus on supporting the Block 40 fleet and closing out Block 30 efforts to maximize value to the USAF and DoD.

RQ-4 post production 3010 Budget Program (BP) 13 funding will support 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 support the procurement and installation of MS-177 multi-spectral Intelligence, Surveillance, and Reconnaissance (ISR) sensors, auxiliary equipment B-kits, support equipment, sensor calibration flights, training, data, Interim Contractor Support (ICS), and other costs to complete the fielding of the sensors. Fairings and sensor windows were also be procured in support of the sensors. The B-kits consist of the Sensor Interface Modules (SIM), airborne file servers, tooling, and other related equipment. The Program Office awarded a contract to integrate the MS-177 7-Band onto the RQ-4 in early FY16 and MS-177A 10-Band in late FY18. To date, 7-Band DT is complete with OUE completed in FY19.

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 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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		- / -	- / -	- / 1.830	- / 7.330	- / -	- / 7.330
P-5	RQ-4 Post Production Charges		B		- / 6.602	- / 5.497	- / 1.000	- / 25.255	- / -	- / 25.255
P-5	Sensors		B		- / 89.712	- / 35.144	- / 44.416	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 96.314	- / 40.641	- / 47.246	- / 32.585	- / -	- / 32.585

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

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

Justification:
 FY21 RQ-4 GSMP funding will be utilized for trainers, site surveys, ICS, and any other related costs necessary to begin GSMP production.

 FY21 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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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 2	P-1 Line Item Number / Title: RQ4DIS / RQ-4 Post Production Charges	Item Number / Title [DODIC]: GSMP

ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			-	-	1.830	7.330	-	7.330
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			-	-	1.830	7.330	-	7.330
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			-	-	1.830	7.330	-	7.330
<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)			-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - GSMP Cost																		
Trainer	-	-	-	-	-	-	-	-	1.830	-	-	1.830	-	-	-	-	-	1.830
Interim Contractor Support	-	-	-	-	-	-	-	-	-	-	-	5.500	-	-	-	-	-	5.500
<i>Subtotal: Support - GSMP Cost</i>	-	-	-	-	-	-	-	-	1.830	-	-	7.330	-	-	-	-	-	7.330
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	1.830	-	-	7.330	-	-	-	-	-	7.330

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.

FY21 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: Q4 2021
 Projected OT Report completion: Q1 2023

Funding for this exhibit contained in PE 0305220F.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 2	P-1 Line Item Number / Title: RQ4DIS / RQ-4 Post Production Charges	Item Number / Title [DODIC]: RQ-4 Post Production Charges
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	6.602	5.497	1.000	25.255	-	25.255
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	6.602	5.497	1.000	25.255	-	25.255
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	6.602	5.497	1.000	25.255	-	25.255

(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	-	3.300
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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 Total		
	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>
Support - RQ-4 Post Production Support Cost																		
Other Government Costs	-	-	3.157	-	-	4.740	-	-	0.200	-	-	24.255	-	-	-	-	-	24.255
PMA Contractor Services	-	-	3.445	-	-	0.757	-	-	0.800	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Support - RQ-4 Post Production Support Cost</i>	-	-	6.602	-	-	5.497	-	-	1.000	-	-	25.255	-	-	-	-	-	25.255
Gross/Weapon System Cost	-	-	6.602	-	-	5.497	-	-	1.000	-	-	25.255	-	-	-	-	-	25.255

Remarks:
FY21 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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 2	P-1 Line Item Number / Title: RQ4DIS / RQ-4 Post Production Charges	Item Number / Title [DODIC]: Sensors
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	89.712	35.144	44.416	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	89.712	35.144	44.416	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	89.712	35.144	44.416	-	-	-

(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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - Sensors Cost																		
Recurring Cost																		
MS-177A Sensors	9.050	6	54.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Auxiliary Equipment B-Kits	-	-	-	2.785	6	16.710	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	54.300	-	-	16.710	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Sensors Cost</i>	-	-	54.300	-	-	16.710	-	-	-	-	-	-	-	-	-	-	-	-
Support - Sensors Cost																		
Sensor Calibration/Installation	-	-	-	-	-	-	-	-	5.750	-	-	-	-	-	-	-	-	-
Support Equipment & Other System Equipment	-	-	5.500	-	-	-	-	-	2.310	-	-	-	-	-	-	-	-	-
Change Orders	-	-	-	-	-	-	-	-	2.440	-	-	-	-	-	-	-	-	-
Interim Contractor Support	-	-	11.712	-	-	10.004	-	-	13.080	-	-	-	-	-	-	-	-	-
Other Contractor Costs	-	-	12.500	-	-	8.430	-	-	20.836	-	-	-	-	-	-	-	-	-
Production Test Support	-	-	5.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Sensors Cost</i>	-	-	35.412	-	-	18.434	-	-	44.416	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	89.712	-	-	35.144	-	-	44.416	-	-	-	-	-	-	-	-	-

Remarks:
Requirement source: AF-1067

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 2	P-1 Line Item Number / Title: RQ4DIS / RQ-4 Post Production Charges	Item Number / Title [DODIC]: Sensors
ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	
Funding for this exhibit contained in PE 0305220F.		

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	17.378	17.705	18.215	-	18.215	18.587	18.919	19.261	19.612	-	129.677
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	17.378	17.705	18.215	-	18.215	18.587	18.919	19.261	19.612	-	129.677
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	17.378	17.705	18.215	-	18.215	18.587	18.919	19.261	19.612	-	129.677

(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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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force		Date: February 2020
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		
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 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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				- / -	- / 17.378	- / 17.705	- / 18.215	- / -	- / 18.215
P-40	Total Gross/Weapon System Cost				- / -	- / 17.378	- / 17.705	- / 18.215	- / -	- / 18.215

*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:
 FY2021 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 2021 Air Force **Date:** February 2020

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 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
Pollution Prevention (6044)	A		-	-	-	-	-	1.978	-	-	2.461	-	-	2.463	-	-	-	-	-	2.463
Capital Type Rehabilitation (MPC 3000)	A		-	-	-	-	-	4.810	-	-	7.105	-	-	7.346	-	-	-	-	-	7.346
Industrial Base Assessment (MPC 6000)	A		-	-	-	-	-	1.014	-	-	1.028	-	-	1.046	-	-	-	-	-	1.046
Environmental Compliance (MPC 7000)	A		-	-	-	-	-	9.576	-	-	7.111	-	-	7.360	-	-	-	-	-	7.360
Subtotal: Uncategorized			-	-	-	-	-	17.378	-	-	17.705	-	-	18.215	-	-	-	-	-	18.215
Total			-	-	-	-	-	17.378	-	-	17.705	-	-	18.215	-	-	-	-	-	18.215

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 2021 Air Force **Date:** February 2020

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

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	29.342	32.102	36.046	-	36.046	40.916	41.645	42.396	43.173	-	265.620
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	29.342	32.102	36.046	-	36.046	40.916	41.645	42.396	43.173	-	265.620
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	29.342	32.102	36.046	-	36.046	40.916	41.645	42.396	43.173	-	265.620

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

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

Description:

This program provides funding for the procurement of initial/replacement War Consumables and includes commodities such as Miniature Air Launched Decoy Jammers (MALD-J), Fiber Optic Towed Decoys (FOTD), and Rocket-Assisted Take-Off (RATO) motors. These items support War Reserve Materiel (WRM) requirements and fleet inventory objectives across multiple weapon systems.

DESCRIPTION:

The Miniature Air Launched Decoy (MALD) and Jammer (MALD-J) configurations are key enablers supporting Air Force Global Strike, Global Response, Space and C4ISR, and Air and Space Expeditionary Force Concepts of Operation. MALD is a low cost, powered, expendable decoy designed to represent the kinematics and radar signature characteristics of various combat aircraft. The MALD will be employed from various aircraft platforms to stimulate, saturate, and deceive integrated air defense systems (IADS) thus increasing the survivability of strike aircraft. MALD production is complete and transitioned to sustainment. MALD-J is currently in production and is the DODs only stand-in jamming capability for Airborne Electronic Attack Systems. MALD-J is designed to degrade or deny the IADS detection of friendly aircraft or munitions, and is able to operate in both decoy and jammer modes.

The MALD program plans to use some funds to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues, obsolescence issues, and reliability improvements, including flight testing. FY18 is the final year of MALD funding.

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.

DESCRIPTION:

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 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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				- / -	- / 4.599	- / 4.012	- / 4.757	- / -	- / 4.757
P-40a	Multi-Platform Electronic Warfare Equipment				- / -	- / 24.743	- / 28.090	- / 31.289	- / -	- / 31.289
P-40	Total Gross/Weapon System Cost				- / -	- / 29.342	- / 32.102	- / 36.046	- / -	- / 36.046

*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: FY21 funds procure all system components: decoys, canisters, and explosive cartridges to deploy the decoys

 Items Less Than \$5M: FY21 funding required to procure RATOs, and H1.4 Cutters.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 4 **P-1 Line Item Number / Title:** 000074 / War Consumables **Aggregated Items Title:** ITEMS LESS THAN \$5,000,000

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
RATO	A		-	-	-	0.032	136	4.352	0.032	118	3.782	0.038	118	4.527	-	-	-	0.038	118	4.527
H1.4 Cutter	A		-	-	-	0.000	1,968	0.247	0.000	1,832	0.230	0.000	1,832	0.230	-	-	-	0.000	1,832	0.230
Subtotal: Uncategorized			-	-	-	-	-	4.599	-	-	4.012	-	-	4.757	-	-	-	-	-	4.757
Total			-	-	-	-	-	4.599	-	-	4.012	-	-	4.757	-	-	-	-	-	4.757

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

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force														Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 4							P-1 Line Item Number / Title: 000074 / War Consumables							Aggregated Items Title: Multi-Platform Electronic Warfare Equipment					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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																				
ALE-70 Towed Decoy	A		-	-	-	0.058	427	24.743	0.058	484	28.090	0.065	484	31.289	-	-	-	0.065	484	31.289
Subtotal: Hardware			-	-	-	-	-	24.743	-	-	28.090	-	-	31.289	-	-	-	-	-	31.289
Total			-	-	-	-	-	24.743	-	-	28.090	-	-	31.289	-	-	-	-	-	31.289

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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
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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: 0207439F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	1,400.193	1,072.335	1,439.640	-	1,439.640	1,132.216	1,629.974	1,785.255	1,945.431	-	10,405.044
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	1,400.193	1,072.335	1,439.640	-	1,439.640	1,132.216	1,629.974	1,785.255	1,945.431	-	10,405.044
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	1,400.193	1,072.335	1,439.640	-	1,439.640	1,132.216	1,629.974	1,785.255	1,945.431	-	10,405.044

(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 2021 include funding for Electronic Attack pods, towed decoys and associated test equipment; B-2, F-15E and F-22 Depot Core Activation; RQ-4, Aerial Targets, Family of Advanced BLoS Terminals (FAB-T), 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, 0207134F, 0207138F, 0205219F, 0207249F, 0305116F, 0305220F, 0401119F, and 1203001F.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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 Squadrons				- / -	- / 10.824	- / 4.682	- / 22.621	- / -	- / 22.621
P-40a	B-52 Squadrons				- / -	- / 0.981	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	C-5 Airlift Squadrons (IF)				- / -	- / 0.000	- / 0.585	- / 9.304	- / -	- / 9.304
P-40a	CLASSIFIED Mods				- / -	- / 1,039.662	- / 830.913	- / 994.131	- / -	- / 994.131
P-40a	CTRE				- / -	- / 13.842	- / 0.300	- / 3.495	- / -	- / 3.495
P-40a	EW POD				- / -	- / 59.535	- / 43.869	- / 43.831	- / -	- / 43.831
P-40a	EWIR				- / -	- / 3.631	- / 3.739	- / 3.800	- / -	- / 3.800
P-40a	F-15 EPAWSS				- / -	- / 0.000	- / 0.000	- / 52.058	- / -	- / 52.058
P-40a	F-15A/B/C/D Squadrons				- / -	- / 0.000	- / 2.500	- / 1.498	- / -	- / 1.498
P-40a	F-15E Squadrons				- / -	- / 10.740	- / 48.356	- / 104.456	- / -	- / 104.456
P-40a	F-22A Squadrons				- / -	- / 20.735	- / 0.000	- / 151.512	- / -	- / 151.512
P-40a	Family of Advanced BLoS Terminals (FAB-T)				- / -	- / 0.000	- / 1.700	- / 0.000	- / -	- / 0.000
P-40a	MQ-9				- / -	- / 15.291	- / 22.107	- / 26.585	- / -	- / 26.585
P-40a	PRECISION ATTACK SYSTEMS PROCUREMENT				- / -	- / 21.179	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	RQ-4 UAV				- / -	- / 0.091	- / 0.070	- / 0.000	- / -	- / 0.000
P-40a	Service Support to NATO AEW/C Program				- / -	- / 172.319	- / 97.000	- / 9.854	- / -	- / 9.854
P-40a	Supply Depot Operations (Non-IF)				- / -	- / 2.116	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	TRGT				- / -	- / 29.247	- / 16.514	- / 16.495	- / -	- / 16.495
P-40	Total Gross/Weapon System Cost				- / -	- / 1,400.193	- / 1,072.335	- / 1,439.640	- / -	- / 1,439.640

*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 F-15 EPAWSS Item F-15 EPAWSS, is a new start.

The major efforts supported in FY 2021 include funding for Electronic Attack pods, towed decoys and associated test equipment; B-2, F-15E and F-22 Depot Core Activation; RQ-4, Aerial Targets, Family of Advanced BLoS Terminals (FAB-T), 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.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other Production Charges	Aggregated Items Title: B-2 Squadrons
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
B-2 Squadrons	A		-	-	-	-	-	10.824	-	-	4.682	-	-	22.621	-	-	-	-	-	22.621
Subtotal: Uncategorized			-	-	-	-	-	10.824	-	-	4.682	-	-	22.621	-	-	-	-	-	22.621
Total			-	-	-	-	-	10.824	-	-	4.682	-	-	22.621	-	-	-	-	-	22.621

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

Remarks:

These funds are 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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5 **P-1 Line Item Number / Title:** 000075 / Other Production Charges **Aggregated Items Title:** B-52 Squadrons

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
B-52	A		-	-	-	-	-	0.981	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Uncategorized			-	-	-	-	-	0.981	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	0.981	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

Remarks:
The 1760 Internal Weapons Bay Upgrade (IWBU) Depot Source Of Repair (DSOR) identified the Survivability & Vulnerability (S&V) Junction box as a candidate for depot repair, with OC-ALC designated as the depot.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other Production Charges	Aggregated Items Title: C-5 Airlift Squadrons (IF)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
C-5	A		-	-	-	-	-	0.000	-	-	0.585	-	-	9.304	-	-	-	-	-	9.304
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	0.585	-	-	9.304	-	-	-	-	-	9.304
Total			-	-	-	-	-	0.000	-	-	0.585	-	-	9.304	-	-	-	-	-	9.304

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

Remarks:

FY21 funds required for depot activation for CNS/ATM Line Replaceable Units.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other Production Charges	Aggregated Items Title: CLASSIFIED Mods
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
Classified Programs	A		-	-	-	-	-	1,039.662	-	-	830.913	-	-	994.131	-	-	-	-	-	994.131
Subtotal: Uncategorized			-	-	-	-	-	1,039.662	-	-	830.913	-	-	994.131	-	-	-	-	-	994.131
Total			-	-	-	-	-	1,039.662	-	-	830.913	-	-	994.131	-	-	-	-	-	994.131

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.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other Production Charges	Aggregated Items Title: CTRE
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
Combat Training Range Equipment	A		-	-	-	-	-	13.842	-	-	0.300	-	-	3.495	-	-	-	-	-	3.495
Subtotal: Uncategorized			-	-	-	-	-	13.842	-	-	0.300	-	-	3.495	-	-	-	-	-	3.495
Total			-	-	-	-	-	13.842	-	-	0.300	-	-	3.495	-	-	-	-	-	3.495

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

Remarks:

The P5 Combat Training System (P5CTS) 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 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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other Production Charges	Aggregated Items Title: EW POD
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
EW POD	A		-	-	-	-	-	59.535	-	-	43.869	-	-	43.831	-	-	-	-	-	43.831
Subtotal: Uncategorized			-	-	-	-	-	59.535	-	-	43.869	-	-	43.831	-	-	-	-	-	43.831
Total			-	-	-	-	-	59.535	-	-	43.869	-	-	43.831	-	-	-	-	-	43.831

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

Remarks:

Provides funding for A-10 and F-16 Electronic Attack pods and towed decoys and associated test equipment. This equipment is used to counter adversary ground and airborne radar systems used to detect and target Air Force aircraft.

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

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5 **P-1 Line Item Number / Title:** 000075 / Other Production Charges **Aggregated Items Title:** EWIR

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
EWIR																				
Electronic Warfare Integrated Reprogramming (EWIR)	A		-	-	-	-	-	3.631	-	-	3.739	-	-	3.800	-	-	-	-	-	3.800
Subtotal: EWIR			-	-	-	-	-	3.631	-	-	3.739	-	-	3.800	-	-	-	-	-	3.800
Total			-	-	-	-	-	3.631	-	-	3.739	-	-	3.800	-	-	-	-	-	3.800

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

Remarks:

This program funds equipment and aircraft system components to provide critical reprogramming of Electronic Warfare (EW) systems for all Air Force and Foreign Military Sales customers. FY21 funding continues these efforts.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

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
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
F-15 EPAWSS																				
F-15 EPAWSS	A		-	-	-	-	-	0.000	-	-	0.000	-	-	52.058	-	-	-	-	-	52.058
Subtotal: F-15 EPAWSS			-	-	-	-	-	0.000	-	-	0.000	-	-	52.058	-	-	-	-	-	52.058
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	52.058	-	-	-	-	-	52.058

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

Remarks:
The Air Force will procure depot level repair tooling; two electronic test benches; and system LRUs and test equipment to populate the benches. Additionally, the Air Force award a contract to develop comprehensive Technical Repair Documents that identify repairs will be performed on each component of the EPAWSS system.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other Production Charges	Aggregated Items Title: F-15A/B/C/D Squadrons
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
Mode 5 Program Office Estimate	A		-	-	-	-	-	0.000	-	-	2.500	-	-	1.498	-	-	-	-	-	1.498
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	2.500	-	-	1.498	-	-	-	-	-	1.498
Total			-	-	-	-	-	0.000	-	-	2.500	-	-	1.498	-	-	-	-	-	1.498

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.

These funds will be used to support depot stand-up/activation for F-15C Mode 5.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5 **P-1 Line Item Number / Title:** 000075 / Other Production Charges **Aggregated Items Title:** F-15E Squadrons

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
APG-82(V)1 Depot Standup Program Office Estimate	A		-	-	-	-	-	10.740	-	-	48.356	-	-	104.456	-	-	-	-	-	104.456
Subtotal: Uncategorized			-	-	-	-	-	10.740	-	-	48.356	-	-	104.456	-	-	-	-	-	104.456
Total			-	-	-	-	-	10.740	-	-	48.356	-	-	104.456	-	-	-	-	-	104.456

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.

These funds 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).

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5 **P-1 Line Item Number / Title:** 000075 / Other Production Charges **Aggregated Items Title:** F-22A Squadrons

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
F-22 A Squadrons	A		-	-	-	-	-	20.735	-	-	0.000	-	-	151.512	-	-	-	-	-	151.512
Subtotal: Uncategorized			-	-	-	-	-	20.735	-	-	0.000	-	-	151.512	-	-	-	-	-	151.512
Total			-	-	-	-	-	20.735	-	-	0.000	-	-	151.512	-	-	-	-	-	151.512

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

Remarks:

This 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.

FY20 funding levels should reflect \$29.319M. A Congressional Mark of -\$114.35M was applied to F-22 BP19 vice F-22 BP11 funding.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force														Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5							P-1 Line Item Number / Title: 000075 / Other Production Charges							Aggregated Items Title: Family of Advanced BLoS Terminals (FAB-T)					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
Family of Advanced BLoS Terminals (FAB-T)	A		-	-	-	-	-	0.000	-	-	1.700	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	1.700	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	0.000	-	-	1.700	-	-	0.000	-	-	-	-	0.000	

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 2021 funding is requested.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other Production Charges	Aggregated Items Title: MQ-9
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
MQ-9	A		-	-	-	-	-	15.291	-	-	22.107	-	-	26.585	-	-	-	-	-	26.585
Subtotal: Uncategorized			-	-	-	-	-	15.291	-	-	22.107	-	-	26.585	-	-	-	-	-	26.585
Total			-	-	-	-	-	15.291	-	-	22.107	-	-	26.585	-	-	-	-	-	26.585

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

Remarks:

Funds 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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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force														Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5						P-1 Line Item Number / Title: 000075 / Other Production Charges						Aggregated Items Title: PRECISION ATTACK SYSTEMS PROCUREMENT							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
Precision Attack Systems	A		-	-	-	-	-	21.179	-	-	0.000	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	21.179	-	-	0.000	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	21.179	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

Remarks:
Fully Integrated Targeting Pod (FITP) Modification -- Formally integrates the critical Sniper Electro-Optic/Infrared (EO/IR) advanced targeting pod (ATP) capability into the B-1's internal software to meet today's mission needs.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other Production Charges	Aggregated Items Title: RQ-4 UAV
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
RQ-4 UAV	A		-	-	-	-	-	0.091	-	-	0.070	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	-	-	-	0.091	-	-	0.070	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	0.091	-	-	0.070	-	-	0.000	-	-	-	-	0.000	

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

Remarks:

Funds 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.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force														Date: February 2020					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5							P-1 Line Item Number / Title: 000075 / Other Production Charges							Aggregated Items Title: Service Support to NATO AEWC Program					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)						
Uncategorized																										
NATO AWACS-Modernization Projects	A		-		-	-		172.319	-		-	97.000	-		-	9.854	-		-	-	-		-		-	9.854
Subtotal: Uncategorized			-		-	-		172.319	-		-	97.000	-		-	9.854	-		-	-	-		-		-	9.854
Total			-		-	-		172.319	-		-	97.000	-		-	9.854	-		-	-	-		-		-	9.854

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

Remarks:
 NATO E-3 aircraft provide 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 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other Production Charges	Aggregated Items Title: Supply Depot Operations (Non-IF)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
Supply Depot Operations (Non-IF)	A		-	-	-	-	-	2.116	-	-	0.000	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	2.116	-	-	0.000	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	2.116	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

Remarks:
Supply Depot Operations (Non-IF)

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other Production Charges	Aggregated Items Title: TRGT
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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)
Uncategorized																				
Aerial Targets	A		-	-	-	-	-	29.247	-	-	16.514	-	-	16.495	-	-	-	-	-	16.495
Subtotal: Uncategorized			-	-	-	-	-	29.247	-	-	16.514	-	-	16.495	-	-	-	-	-	16.495
Total			-	-	-	-	-	29.247	-	-	16.514	-	-	16.495	-	-	-	-	-	16.495

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. FY21 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 2021 Air Force **Date:** February 2020

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: 11SPEC / Spectrum Relocation Fund
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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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	8.323	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	8.323
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	8.323	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	8.323
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	8.323	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	8.323

(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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