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**Department of Defense
Fiscal Year (FY) 2020 Budget Estimates**

March 2019



Air Force

Justification Book Volume 1 of 2

Aircraft Procurement, Air Force

Vol-1

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Air Force • Budget Estimates FY 2020 • Procurement

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Appropriation Language
Fiscal Year (FY) 2020 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, \$17,093,389,000, to remain available for obligations until September 30, 2022.

FY 2020 Overseas Contingency Operations funding can be separated into the following categories:

- OCO for Direct War Costs (\$21,300,000): 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 (\$287,810,000): 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 (\$0): 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 2020 President's Budget
 Exhibit P-1 FY 2020 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

19 Feb 2019

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2018 (Base + OCO) -----	FY 2019 Base Enacted -----	FY 2019 OCO Enacted -----	FY 2019 Total Enacted -----
01. Combat Aircraft	6,504,984	5,392,021		5,392,021
02. Airlift Aircraft	4,857,712	4,007,506	89,000	4,096,506
04. Other Aircraft	775,735	1,224,127	279,200	1,503,327
05. Modification of Inservice Aircraft	3,703,231	3,930,656	441,019	4,371,675
06. Aircraft Spares and Repair Parts	1,161,839	820,508	91,500	912,008
07. Aircraft Supt Equipment & Facilities	1,887,026	1,737,519	54,529	1,792,048
Total Aircraft Procurement, Air Force	18,890,527	17,112,337	955,248	18,067,585

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Total Obligational Authority
(Dollars in Thousands)

19 Feb 2019

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2020 Base -----	FY 2020 OCO for Base Requirements -----	FY 2020 OCO for Direct War and Enduring Costs -----	FY 2020 Total OCO -----
01. Combat Aircraft	5,979,859			
02. Airlift Aircraft	3,157,892			
04. Other Aircraft	1,482,139		184,390	184,390
05. Modification of Inservice Aircraft	3,854,227		73,135	73,135
06. Aircraft Spares and Repair Parts	708,230		44,560	44,560
07. Aircraft Supt Equipment & Facilities	1,601,932		7,025	7,025
Total Aircraft Procurement, Air Force	16,784,279		309,110	309,110

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19 Feb 2019

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2020 Total (Base + OCO) -----
01. Combat Aircraft	5,979,859
02. Airlift Aircraft	3,157,892
04. Other Aircraft	1,666,529
05. Modification of Inservice Aircraft	3,927,362
06. Aircraft Spares and Repair Parts	752,790
07. Aircraft Supt Equipment & Facilities	1,608,957
Total Aircraft Procurement, Air Force	17,093,389

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

19 Feb 2019

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO)		FY 2019 Base Enacted		FY 2019 OCO Enacted		FY 2019 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											
Tactical Forces											
1	F-35	A	56	(6,129,184)	56	(5,469,121)			56	(5,469,121)	U
	Less: Advance Procurement (PY)			(-404,500)		(-608,100)				(-608,100)	U
				-----		-----		-----		-----	
				5,724,684		4,861,021				4,861,021	
2	F-35										
	Advance Procurement (CY)			780,300		406,000				406,000	U
	C (FY 2018 for FY 2019) (M)			(608,100)							
	C (FY 2018 for FY 2020) (M)			(172,200)							
	C (FY 2019 for FY 2020) (M)					(406,000)				(406,000)	
	C (FY 2020 for FY 2021) (M)										
	C (FY 2020 for FY 2022) (M)										
3	F-15e	A									U
Other Combat Aircraft											
4	C-135B	A			1	125,000			1	125,000	U
				-----		-----		-----		-----	
Total Combat Aircraft				6,504,984		5,392,021				5,392,021	
Budget Activity 02: Airlift Aircraft											
Tactical Airlift											
5	KC-46A MDAP	A	18	2,927,129	15	2,290,932			15	2,290,932	U
Other Airlift											
6	C-130J	A	6	639,708	8	675,858			8	675,858	U

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19 Feb 2019

Appropriation: 3010F Aircraft Procurement, Air Force

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

Tactical Forces											
1	F-35	A	48	(4,852,559)							U
	Less: Advance Procurement (PY)			(-578,200)							U

				4,274,359							
2	F-35										
	Advance Procurement (CY)			655,500							U
	C (FY 2018 for FY 2019) (M)										
	C (FY 2018 for FY 2020) (M)										
	C (FY 2019 for FY 2020) (M)										
	C (FY 2020 for FY 2021) (M)			(570,500)							
	C (FY 2020 for FY 2022) (M)			(85,000)							
3	F-15e	A	8	1,050,000							U
Other Combat Aircraft											
4	C-135B	A		-----							U
Total Combat Aircraft				5,979,859							
Budget Activity 02: Airlift Aircraft											

Tactical Airlift											
5	KC-46A MDAP	A	12	2,234,529							U
Other Airlift											
6	C-130J	A		12,156							U

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 FY 2020 President's Budget
 Exhibit P-1 FY 2020 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

19 Feb 2019

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO)		S e c
			Quantity	Cost	
Budget Activity 01: Combat Aircraft					
Tactical Forces					
1	F-35	A	48	(4,852,559)	U
	Less: Advance Procurement (PY)			(-578,200)	U
				4,274,359	
2	F-35				
	Advance Procurement (CY)			655,500	U
	C (FY 2018 for FY 2019) (M)				
	C (FY 2018 for FY 2020) (M)				
	C (FY 2019 for FY 2020) (M)				
	C (FY 2020 for FY 2021) (M)			(570,500)	
	C (FY 2020 for FY 2022) (M)			(85,000)	
3	F-15e	A	8	1,050,000	U
Other Combat Aircraft					
4	C-135B	A			U
Total Combat Aircraft				5,979,859	
Budget Activity 02: Airlift Aircraft					
Tactical Airlift					
5	KC-46A MDAP	A	12	2,234,529	U
Other Airlift					
6	C-130J	A		12,156	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO)		FY 2019 Base Enacted		FY 2019 OCO Enacted		FY 2019 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
7	HC-130J	A	3	(301,502)		(94,837)	2	(89,000)	2	(183,837)	U
	Less: Advance Procurement (PY)			(-20,000)							U
				281,502		94,837		89,000		183,837	
8	MC-130J	A	11	(1,053,373)	6	(757,879)			6	(757,879)	U
	Less: Advance Procurement (PY)			(-74,000)		(-30,000)				(-30,000)	U
				979,373		727,879				727,879	
9	MC-130J										
	Advance Procurement (CY)			30,000		218,000				218,000	U
	C (FY 2018 for FY 2019) (M)			(30,000)							
	C (FY 2019 for FY 2020) (M)					(182,000)				(182,000)	
	C (FY 2019 for FY 2021) (M)					(16,000)				(16,000)	
	C (FY 2019 for FY 2022) (M)					(16,000)				(16,000)	
	C (FY 2019 for FY 2023) (M)					(4,000)				(4,000)	
	C (FY 2020 for FY 2021) (M)										
Total Airlift Aircraft				4,857,712		4,007,506		89,000		4,096,506	
Budget Activity 04: Other Aircraft											

Helicopters											
10	Combat Rescue Helicopter	A			10	660,358			10	660,358	U
Mission Support Aircraft											
11	C-37A	A	2	130,000							U
12	Civil Air Patrol A/C	A	19	10,600	17	10,800			17	10,800	U
Other Aircraft											
13	Pale Ale	A	1	28,500							U
14	Target Drones	A	42	105,841	37	100,953			37	100,953	U

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Department of the Air Force
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19 Feb 2019

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Base		FY 2020 OCO for Base Requirements		FY 2020 OCO for Direct War and Enduring Costs		FY 2020 Total OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
7	HC-130J	A									U
	Less: Advance Procurement (PY)										U
8	MC-130J	A	8	(1,053,207)							U
	Less: Advance Procurement (PY)			(-182,000)							U
				871,207							
9	MC-130J										
	Advance Procurement (CY)			40,000							U
	C (FY 2018 for FY 2019) (M)										
	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)							
Total Airlift Aircraft				3,157,892							
Budget Activity 04: Other Aircraft											

Helicopters											
10	Combat Rescue Helicopter	A	12	884,235							U
Mission Support Aircraft											
11	C-37A	A	2	161,000							U
12	Civil Air Patrol A/C	A	4	2,767							U
Other Aircraft											
13	Pale Ale	A									U
14	Target Drones	A	37	130,837							U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO)		S e c
			Quantity	Cost	
7	HC-130J	A			U
	Less: Advance Procurement (PY)				U
8	MC-130J	A	8	(1,053,207)	U
	Less: Advance Procurement (PY)			(-182,000)	U
				871,207	
9	MC-130J				
	Advance Procurement (CY)			40,000	U
	C (FY 2018 for FY 2019) (M)				
	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)	
	Total Airlift Aircraft			3,157,892	
Budget Activity 04: Other Aircraft					

Helicopters					
10	Combat Rescue Helicopter	A	12	884,235	U
Mission Support Aircraft					
11	C-37A	A	2	161,000	U
12	Civil Air Patrol A/C	A	4	2,767	U
Other Aircraft					
13	Pale Ale	A			U
14	Target Drones	A	37	130,837	U

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 (Dollars in Thousands)

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO)		FY 2019 Base Enacted		FY 2019 OCO Enacted		FY 2019 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
15	Compass Call	A	1	111,573	2	216,113			2	216,113	U
16	Observation Attack Replacement (OA-X)	A				100,000				100,000	U
17	MQ-9	A	16	389,221		135,903	24	265,700	24	401,603	U
18	RQ-20B Puma	A			20			13,500	20	13,500	U
Total Other Aircraft				775,735		1,224,127		279,200		1,503,327	
Budget Activity 05: Modification of Inservice Aircraft											

Strategic Aircraft											
19	B-2A	A		94,552		60,301				60,301	U
20	B-1B	A		121,634		35,690		4,000		39,690	U
21	B-52	A		98,125		95,830		21,400		117,230	U
22	Large Aircraft Infrared Countermeasures	A		4,046				149,778		149,778	U
Tactical Aircraft											
23	A-10	A		109,010		157,710		10,350		168,060	U
24	E-11 BACN/HAG	A									U
25	F-15	A		430,273		446,647				446,647	U
26	F-16	A		243,864		303,413				303,413	U
27	F-16	A				11				11	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Base		FY 2020 OCO for Base Requirements		FY 2020 OCO for Direct War and Enduring Costs		FY 2020 Total OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
15	Compass Call	A	1	114,095							U
16	Observation Attack Replacement (OA-X)	A									U
17	MQ-9	A	3	189,205			9	172,240	9	172,240	U
18	RQ-20B Puma	A					18	12,150	18	12,150	U
Total Other Aircraft				1,482,139				184,390		184,390	
Budget Activity 05: Modification of Inservice Aircraft											

Strategic Aircraft											
19	B-2A	A		9,582							U
20	B-1B	A		22,111							U
21	B-52	A		69,648							U
22	Large Aircraft Infrared Countermeasures	A		43,758				53,335		53,335	U
Tactical Aircraft											
23	A-10	A		132,069							U
24	E-11 BACN/HAG	A		70,027							U
25	F-15	A		481,073							U
26	F-16	A		234,782							U
27	F-16	A									U

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 (Dollars in Thousands)

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO)		S e c
			Quantity	Cost	
15	Compass Call	A	1	114,095	U
16	Observation Attack Replacement (OA-X)	A			U
17	MQ-9	A	12	361,445	U
18	RQ-20B Puma	A	18	12,150	U
Total Other Aircraft				1,666,529	

Budget Activity 05: Modification of Inservice Aircraft

Strategic Aircraft

19	B-2A	A		9,582	U
20	B-1B	A		22,111	U
21	B-52	A		69,648	U
22	Large Aircraft Infrared Countermeasures	A		97,093	U

Tactical Aircraft

23	A-10	A		132,069	U
24	E-11 BACN/HAG	A		70,027	U
25	F-15	A		481,073	U
26	F-16	A		234,782	U
27	F-16	A			U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO)		FY 2019 Base Enacted		FY 2019 OCO Enacted		FY 2019 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
28	F-22A	A		(144,830)		(268,210)				(268,210)	U
	Less: Advance Procurement (PY)					(-7,500)				(-7,500)	U
				-----		-----		-----		-----	
				144,830		260,710				260,710	
29	F-22A										
	Advance Procurement (CY)			7,500							U
	C (FY 2018 for FY 2019) (M)			(7,500)							
30	F-35 Modifications	A		23,270		237,271				237,271	U
31	F-15 EPAW	A				214,885				214,885	U
32	Increment 3.2b	A		(104,907)		(2,007)				(2,007)	U
	Less: Advance Procurement (PY)			(-2,000)							U
				-----		-----		-----		-----	
				102,907		2,007				2,007	
33	KC-46A MDAP	A		1,213		8,547				8,547	U
Airlift Aircraft											
34	C-5	A		21,742		67,909				67,909	U
35	C-5M	A		3,305							U
36	C-17A	A		96,352		77,221				77,221	U
37	C-21	A		13,253		17,516				17,516	U
38	C-32A	A		79,449		4,537				4,537	U
39	C-37A	A		15,423		419				419	U
Trainer Aircraft											
40	Glider Mods	A		136		137				137	U
41	T-6	A		14,606		22,550				22,550	U

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19 Feb 2019

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Base		FY 2020 OCO for Base Requirements		FY 2020 OCO for Direct War and Enduring Costs		FY 2020 Total OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
28	F-22A	A		(323,597)							U
	Less: Advance Procurement (PY)										U
				323,597							
29	F-22A										U
	Advance Procurement (CY)										
	C (FY 2018 for FY 2019) (M)										
30	F-35 Modifications	A		343,590							U
31	F-15 EPAW	A		149,047							U
32	Increment 3.2b	A		(20,213)							U
	Less: Advance Procurement (PY)										U
				20,213							
33	KC-46A MDAP	A		10,213							U
Airlift Aircraft											
34	C-5	A		73,550							U
35	C-5M	A									U
36	C-17A	A		60,244							U
37	C-21	A		216							U
38	C-32A	A		11,511							U
39	C-37A	A		435							U
Trainer Aircraft											
40	Glider Mods	A		138							U
41	T-6	A		11,826							U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO)		S e c
			Quantity	Cost	
28	F-22A	A		(323,597)	U
	Less: Advance Procurement (PY)				U
				----- 323,597	
29	F-22A				U
	Advance Procurement (CY)				
	C (FY 2018 for FY 2019) (M)				
30	F-35 Modifications	A		343,590	U
31	F-15 EPAW	A		149,047	U
32	Increment 3.2b	A		(20,213)	U
	Less: Advance Procurement (PY)				U
				----- 20,213	
33	KC-46A MDAP	A		10,213	U
Airlift Aircraft					
34	C-5	A		73,550	U
35	C-5M	A			U
36	C-17A	A		60,244	U
37	C-21	A		216	U
38	C-32A	A		11,511	U
39	C-37A	A		435	U
Trainer Aircraft					
40	Glider Mods	A		138	U
41	T-6	A		11,826	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO)		FY 2019 Base Enacted		FY 2019 OCO Enacted		FY 2019 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
42	T-1	A		21,477		21,952				21,952	U
43	T-38	A		51,641		70,623				70,623	U
Other Aircraft											
44	U-2 Mods			32,177		48,774		7,900		56,674	U
45	KC-10A (ATCA)	A		4,243		11,104				11,104	U
46	C-12	A		5,846		4,900				4,900	U
47	VC-25A Mod	A		52,107		27,238				27,238	U
48	C-40	A		31,119		251				251	U
49	C-130	A		210,310		181,094				181,094	U
50	C-130J Mods	A		177,516		127,434				127,434	U
51	C-135	A		69,428		91,410				91,410	U
52	OC-135B	A		23,091		5,913				5,913	U
53	Compass Call	A		125,788		135,885		36,400		172,285	U
54	combat flight inspection - CFIN	A		495		499				499	U
55	RC-135	A		204,559		394,532				394,532	U
56	E-3	A		119,908		116,865				116,865	U
57	E-4	A		25,914		67,858				67,858	U
58	E-8	A		16,232		24,807		13,000		37,807	U
59	Airborne Warning and Cntrl Sys (AWACS) 40/45	A		142,886		57,780				57,780	U
60	Family of Beyond Line-of-Sight Terminals	A		15,017		14,293				14,293	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Base		FY 2020 OCO for Base Requirements		FY 2020 OCO for Direct War and Enduring Costs		FY 2020 Total OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
42	T-1	A		26,787							U
43	T-38	A		37,341							U
Other Aircraft											
44	U-2 Mods			86,896							U
45	KC-10A (ATCA)	A		2,108							U
46	C-12	A		3,021							U
47	VC-25A Mod	A		48,624							U
48	C-40	A		256							U
49	C-130	A		52,066							U
50	C-130J Mods	A		141,686							U
51	C-135	A		124,491							U
52	OC-135B	A									U
53	Compass Call	A		110,754							U
54	combat flight inspection - CFIN	A		508							U
55	RC-135	A		227,673							U
56	E-3	A		216,299							U
57	E-4	A		58,477							U
58	E-8	A		28,778							U
59	Airborne Warning and Cntrl Sys (AWACS) 40/45	A		36,000							U
60	Family of Beyond Line-of-Sight Terminals	A		7,910							U

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19 Feb 2019

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO)		S e c
			Quantity	Cost	
42	T-1	A		26,787	U
43	T-38	A		37,341	U
Other Aircraft					
44	U-2 Mods			86,896	U
45	KC-10A (ATCA)	A		2,108	U
46	C-12	A		3,021	U
47	VC-25A Mod	A		48,624	U
48	C-40	A		256	U
49	C-130	A		52,066	U
50	C-130J Mods	A		141,686	U
51	C-135	A		124,491	U
52	OC-135B	A			U
53	Compass Call	A		110,754	U
54	combat flight inspection - CFIN	A		508	U
55	RC-135	A		227,673	U
56	E-3	A		216,299	U
57	E-4	A		58,477	U
58	E-8	A		28,778	U
59	Airborne Warning and Cntrl Sys (AWACS) 40/45	A		36,000	U
60	Family of Beyond Line-of-Sight Terminals	A		7,910	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO)		FY 2019 Base Enacted		FY 2019 OCO Enacted		FY 2019 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
61	H-1	A		3,730		11,824				11,824	U
62	H-60	A		75,989		51,466		40,560		92,026	U
63	RQ-4 Mods	A		78,435		123,715				123,715	U
64	HC/MC-130 Modifications	A		200,454		37,754		87,900		125,654	U
65	Other Aircraft	A		69,449		57,410		53,731		111,141	U
66	MQ-9 Mods	A		253,940		171,548				171,548	U
67	MQ-9 UAS Payloads	A		5,000				16,000		16,000	U
68	CV-22 Mods	A		60,990		60,416				60,416	U
Total Modification of Inservice Aircraft				3,703,231		3,930,656		441,019		4,371,675	
Budget Activity 06: Aircraft Spares and Repair Parts											

Aircraft Spares and Repair Parts											
69	Initial Spares/Repair Parts	A		1,161,839		729,008		91,500		820,508	U
70	MQ-9	A				84,000				84,000	U
71	MQ-9 UAS PAYLOADS					7,500				7,500	U
Total Aircraft Spares and Repair Parts				1,161,839		820,508		91,500		912,008	
Budget Activity 07: Aircraft Supt Equipment & Facilities											

Common Support Equipment											
72	Aircraft Replacement Support Equip	A		102,005		81,241		32,529		113,770	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Base		FY 2020 OCO for Base Requirements		FY 2020 OCO for Direct War and Enduring Costs		FY 2020 Total OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
61	H-1	A		3,817							U
62	H-60	A		20,879							U
63	RQ-4 Mods	A		1,704							U
64	HC/MC-130 Modifications	A		51,482							U
65	Other Aircraft	A		50,098							U
66	MQ-9 Mods	A		383,594							U
67	MQ-9 UAS Payloads	A					19,800		19,800		U
68	CV-22 Mods	A		65,348							U
Total Modification of Inservice Aircraft				3,854,227			73,135		73,135		
Budget Activity 06: Aircraft Spares and Repair Parts											
Aircraft Spares and Repair Parts											
69	Initial Spares/Repair Parts	A		708,230			44,560		44,560		U
70	MQ-9	A									U
71	MQ-9 UAS PAYLOADS										U
Total Aircraft Spares and Repair Parts				708,230			44,560		44,560		
Budget Activity 07: Aircraft Supt Equipment & Facilities											
Common Support Equipment											
72	Aircraft Replacement Support Equip	A		84,938			7,025		7,025		U

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Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO)		S e c
			Quantity	Cost	
61	H-1	A		3,817	U
62	H-60	A		20,879	U
63	RQ-4 Mods	A		1,704	U
64	HC/MC-130 Modifications	A		51,482	U
65	Other Aircraft	A		50,098	U
66	MQ-9 Mods	A		383,594	U
67	MQ-9 UAS Payloads	A		19,800	U
68	CV-22 Mods	A		65,348	U
Total Modification of Inservice Aircraft				3,927,362	
Budget Activity 06: Aircraft Spares and Repair Parts					

Aircraft Spares and Repair Parts					
69	Initial Spares/Repair Parts	A		752,790	U
70	MQ-9	A			U
71	MQ-9 UAS PAYLOADS				U
Total Aircraft Spares and Repair Parts				752,790	
Budget Activity 07: Aircraft Supt Equipment & Facilities					

Common Support Equipment					
72	Aircraft Replacement Support Equip	A		91,963	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO)		FY 2019 Base Enacted		FY 2019 OCO Enacted		FY 2019 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Post Production Support											
73	B-2A	A		447		1,763				1,763	U
74	B-2B	A		38,509		35,861				35,861	U
75	B-52	A		199		12,819				12,819	U
76	C-17A	A		12,028		10,114				10,114	U
77	CV-22 Post Production Support			4,500							U
78	RC-135	A		29,700							U
79	F-15	A		20,000		2,545				2,545	U
80	F-15	A		2,524							U
81	F-16	A		8,151		4,918				4,918	U
82	F-22A	A		119,566		64,489				64,489	U
83	Other Aircraft	A		81,600		9,928				9,928	U
84	RQ-4 Post Production Charges	A		84,325		40,641				40,641	U
85	T-53A Trainer	A		501							U
Industrial Preparedness											
86	Industrial Responsiveness	A		30,739		17,378				17,378	U
War Consumables											
87	War Consumables	A		137,647		29,342				29,342	U
Other Production Charges											
88	Other Production Charges	A		1,158,179		1,398,202		22,000		1,420,202	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Base		FY 2020 OCO for Base Requirements		FY 2020 OCO for Direct War and Enduring Costs		FY 2020 Total OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Post Production Support											
73	B-2A	A		1,403							U
74	B-2B	A		42,234							U
75	B-52	A		4,641							U
76	C-17A	A		124,805							U
77	CV-22 Post Production Support										U
78	RC-135	A									U
79	F-15	A		2,589							U
80	F-15	A									U
81	F-16	A		15,348							U
82	F-22A	A									U
83	Other Aircraft	A									U
84	RQ-4 Post Production Charges	A		47,246							U
85	T-53A Trainer	A									U
Industrial Preparedness											
86	Industrial Responsiveness	A		17,705							U
War Consumables											
87	War Consumables	A		32,102							U
Other Production Charges											
88	Other Production Charges	A		1,194,728							U

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			Quantity	Cost	
Post Production Support					
73	B-2A	A		1,403	U
74	B-2B	A		42,234	U
75	B-52	A		4,641	U
76	C-17A	A		124,805	U
77	CV-22 Post Production Support				U
78	RC-135	A			U
79	F-15	A		2,589	U
80	F-15	A			U
81	F-16	A		15,348	U
82	F-22A	A			U
83	Other Aircraft	A			U
84	RQ-4 Post Production Charges	A		47,246	U
85	T-53A Trainer	A			U
Industrial Preparedness					
86	Industrial Responsiveness	A		17,705	U
War Consumables					
87	War Consumables	A		32,102	U
Other Production Charges					
88	Other Production Charges	A		1,194,728	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
90	Spectrum Relocation Fund	A		3,194							U
999	Classified Programs			53,212		28,278				28,278	U
Total Aircraft Supt Equipment & Facilities				1,887,026		1,737,519		54,529		1,792,048	
Total Aircraft Procurement, Air Force				18,890,527		17,112,337		955,248		18,067,585	

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Line No	Item Nomenclature	Ident Code	FY 2020 Base		FY 2020 OCO for Base Requirements		FY 2020 OCO for Direct War and Enduring Costs		FY 2020 Total OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
90	Spectrum Relocation Fund	A									U
999	Classified Programs			34,193							U
Total Aircraft Supt Equipment & Facilities				1,601,932				7,025		7,025	
Total Aircraft Procurement, Air Force				16,784,279				309,110		309,110	

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO)		S e c -
			Quantity	Cost	
90	Spectrum Relocation Fund	A			U
999	Classified Programs			34,193	U
Total Aircraft Supt Equipment & Facilities				1,608,957	
Total Aircraft Procurement, Air Force				17,093,389	

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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
BLSS	- Base Level Self-Sufficiency Spares
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
IPE	- Increased Performance Engine
JPALS	- Joint Precision Approach and Landing System
MAIS	- Major Automated Information System Program
MDAP	- Major Defense Acquisition Program
METS	- Mobile Electronic Test Stations
MYP	- Multiyear Procurement
MSIP	- Multi-Stage Improvement Program
NAVWAR	- Navigation Warfare
NMC Rate	- Not Mission Capable Rate
OPF	- Operational Flight Program
OT&E	- Operational Test and Evaluation
OWRM	- Other War Reserve Material
PAGEL	- Priced Aerospace Ground Equipment List
PB	- President's Budget
PGSE	- Peculiar Ground Support Equipment
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

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R&M	- Reliability and Maintainability
RAA	- Required Asset Availability
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

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

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CONTRACT METHOD / TYPE ACRONYMS

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

CONTRACTED BY ACRONYMS

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

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

IDENTIFICATION CODES

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

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** March 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	226	56	56	48	-	48	48	48	48	48	1,185	1,763
Gross/Weapon System Cost (<i>\$ in Millions</i>)	33,261.686	6,129.184	5,469.121	4,852.559	-	4,852.559	5,015.340	4,883.487	4,768.834	4,747.941	162,738.720	231,866.872
Less PY Advance Procurement (<i>\$ in Millions</i>)	3,322.193	404.500	608.100	578.200	-	578.200	570.500	595.300	604.500	727.500	20,585.605	27,996.398
Net Procurement (P-1) (<i>\$ in Millions</i>)	29,939.493	5,724.684	4,861.021	4,274.359	-	4,274.359	4,444.840	4,288.187	4,164.334	4,020.441	142,153.115	203,870.474
Plus CY Advance Procurement (<i>\$ in Millions</i>)	3,773.693	780.300	406.000	655.500	-	655.500	680.300	434.500	1,030.200	988.000	19,247.905	27,996.398
Total Obligation Authority (<i>\$ in Millions</i>)	33,713.186	6,504.984	5,267.021	4,929.859	-	4,929.859	5,125.140	4,722.687	5,194.534	5,008.441	161,401.020	231,866.872

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

Initial Spares (<i>\$ in Millions</i>)	1,823.359	400.431	357.565	401.080	-	401.080	327.579	333.551	336.589	407.360	3,587.380	7,974.894
Flyaway Unit Cost (<i>\$ in Millions</i>)	130.974	99.514	89.970	90.912	-	90.912	89.350	90.924	88.619	88.223	131.982	123.718
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	147.176	109.450	97.663	101.095	-	101.095	104.486	101.739	99.351	98.915	137.332	131.518

Description:

Joint Strike Fighter (JSF) program will develop and field a family of aircraft that meets the needs of DoD and allies with 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) with optimum 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 Air Force. The F-35s are the next generation of strike fighters which has 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 includes 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 one manufacturer for the program. USAF regular procurement commenced in FY07, DON regular procurement commenced in FY08.

Notes:

(1) Initial Operational Capability (IOC) occurred on 2 August 2016 and Full Rate Production (FRP) is scheduled for 4th Quarter 2019.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** March 2019

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

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

Line Item MDAP/MAIS Code: 198

Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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		226 / 33,261.686	56 / 6,129.184	56 / 5,469.121	48 / 4,852.559	- / -	48 / 4,852.559
P-40	Total Gross/Weapon System Cost				226 / 33,261.686	56 / 6,129.184	56 / 5,469.121	48 / 4,852.559	- / -	48 / 4,852.559

*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 FY2020 BUDGET REQUEST: The FY20 budget provides funding for 48 F-35A aircraft, peculiar support equipment, and logistical requirements for USAF.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: March 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	226	56	56	48	-	48
Gross/Weapon System Cost (\$ in Millions)	33,261.686	6,129.184	5,469.121	4,852.559	-	4,852.559
Less PY Advance Procurement (\$ in Millions)	3,322.193	404.500	608.100	578.200	-	578.200
Net Procurement (P-1) (\$ in Millions)	29,939.493	5,724.684	4,861.021	4,274.359	-	4,274.359
Plus CY Advance Procurement (\$ in Millions)	3,773.693	780.300	406.000	655.500	-	655.500
Total Obligation Authority (\$ in Millions)	33,713.186	6,504.984	5,267.021	4,929.859	-	4,929.859

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

Initial Spares (\$ in Millions)	1,823.359	400.431	357.565	401.080	-	401.080
Gross/Weapon System Unit Cost (\$ in Millions)	147.176	109.450	97.663	101.095	-	101.095

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 ^(†)	77.250	226	17,458.564	56.472	56	3,162.422	56.024	56	3,137.344	55.393	48	2,658.864	-	-	-	55.393	48	2,658.864
CFE Electronics	22.984	226	5,194.333	14.977	56	838.715	13.660	56	764.967	13.650	48	655.200	-	-	-	13.650	48	655.200
Engines/Eng ACC ^(†)	14.404	226	3,255.342	12.463	56	697.906	12.514	56	700.802	12.405	48	595.440	-	-	-	12.405	48	595.440
ECO	2.889	226	652.979	1.678	56	93.981	1.548	56	86.687	1.526	48	73.248	-	-	-	1.526	48	73.248
<i>Subtotal: Recurring Cost</i>	-	-	26,561.218	-	-	4,793.024	-	-	4,689.800	-	-	3,982.752	-	-	-	-	-	3,982.752
Non Recurring Cost																		
Non-Recurring Cost	-	-	2,189.320	-	-	408.184	-	-	95.917	-	-	152.084	-	-	-	-	-	152.084
Ancillary Equip	-	-	849.619	-	-	371.574	-	-	252.605	-	-	228.950	-	-	-	-	-	228.950
<i>Subtotal: Non Recurring Cost</i>	-	-	3,038.939	-	-	779.758	-	-	348.522	-	-	381.034	-	-	-	-	-	381.034
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	29,600.157	-	-	5,572.782	-	-	5,038.322	-	-	4,363.786	-	-	-	-	-	4,363.786
Support - Support End Item Cost																		
Airframe PGSE	-	-	515.933	-	-	85.327	-	-	64.280	-	-	74.721	-	-	-	-	-	74.721
Engine PGSE	-	-	230.753	-	-	45.950	-	-	4.245	-	-	18.127	-	-	-	-	-	18.127
Avionics PGSE	-	-	530.984	-	-	11.810	-	-	8.807	-	-	10.700	-	-	-	-	-	10.700
Peculiar Training Equipment	-	-	471.863	-	-	22.390	-	-	12.048	-	-	7.528	-	-	-	-	-	7.528
Full Mission Simulators	12.033	34	409.106	-	-	0.000	-	-	0.000	-	-	55.787	-	-	-	-	-	55.787
ALIS	-	-	120.229	-	-	10.780	-	-	7.694	-	-	19.446	-	-	-	-	-	19.446
Production Eng Support	-	-	557.920	-	-	93.450	-	-	93.688	-	-	93.840	-	-	-	-	-	93.840

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: March 2019
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	-	-	820.598	-	-	86.695	-	-	87.019	-	-	44.088	-	-	-	-	-	44.088
Miscellaneous Support	-	-	4.143	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Field Activities	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Depot Standup	-	-	-	-	-	200.000	-	-	153.018	-	-	164.536	-	-	-	-	-	164.536
<i>Subtotal: Support - Support End Item Cost</i>	-	-	3,661.529	-	-	556.402	-	-	430.799	-	-	488.773	-	-	-	-	-	488.773
Gross/Weapon System Cost	147.176	226	33,261.686	109.450	56	6,129.184	97.663	56	5,469.121	101.095	48	4,852.559	-	-	-	101.095	48	4,852.559

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) Non-recurring cost includes such items as the USAF share of Production Non-Recurring Tooling which is necessary to support planned production ramp-up. In addition, it includes Diminishing Manufacturing Sources (DMS) including life-of-type part buys, concurrency engineering, technical assistance and Cost Reduction Initiatives (CRI). Increase in FY20 as compared to FY19 is a result of non-recurring engineering required to implement production improvements to mitigate DMS in subcomponents of Radar and Electronic Warfare modules.
- (3) 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.
- (4) Airframe PGSE: Increase in peculiar ground support equipment is a result of support equipment necessary for training squadron standup at Luke, AFB.
- (5) Full Mission Simulators: Procures a total of 4 FMS for use at RAF Lakenheath and Truax Field.
- (6) Depot Standup: Increase in FY20 as compared to FY19 is a result of acceleration of depot standup to support depot maintenance of aircraft and repair of aircraft components.

Totals may not add due to rounding.

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

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** March 2019

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 ^(†)		2018	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Nov 2018	Jan 2020	56	56.472	Y		Jan 2017
Airframe/CFE ^(†)		2019	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2019	Jan 2021	56	56.024	Y		Jan 2018
Airframe/CFE ^(†)		2020	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2020	Jan 2022	48	55.393	Y		Jan 2019
Engines/Eng ACC ^(†)		2018	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	May 2019	May 2019	56	12.463	Y		Mar 2017
Engines/Eng ACC ^(†)		2019	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	May 2019	May 2020	56	12.514	Y		Mar 2018
Engines/Eng ACC ^(†)		2020	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	May 2020	May 2021	48	12.405	Y		Mar 2019
Advance Procurement												
Airframe/CFE: Long Lead Material		2020	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2020	Jan 2022	48	6.832	Y		Jan 2019
Airframe/CFE: For FY21 Economic Order Quantity (Lot 15)		2020	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2020	Jan 2022	-	-	Y		Jan 2019
Airframe/CFE: For FY22 Economic Order Quantity (Lot 16)		2020	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2020	Jan 2022	-	-	Y		Jan 2019
Airframe/CFE: For FY23 Economic Order Quantity (Lot 17)		2020	Lockheed Martin / Fort Worth, TX	SS / FPIF	NAVAIR	Mar 2020	Jan 2022	-	-	Y		Jan 2019
Engines/Eng ACC: Long Lead Material		2020	Pratt & Whitney / East Hartford, CT	SS / FPIF	NAVAIR	May 2020	May 2021	48	1.399	Y		Mar 2019

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** March 2019

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 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: 226																																				
1	2018	AF		56	0	56		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	4	4	5	5	4	6	4	18
1	2019	AF		56	0	56																														56
1	2020	AF		48	0	48																														48

Engines/Eng ACC																																				
Prior Years Deliveries: 226																																				
2	2018	AF		56	0	56																														0
2	2019	AF		56	0	56																														38
2	2020	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 2020 Air Force **Date:** March 2019

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 2021														Fiscal Year 2022												BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Airframe/CFE																																	
Prior Years Deliveries: 226																																	
	1	2018	AF	56	38	18	6	6	6																			0					
	1	2019	AF	56	0	56	-	-	-	2	2	3	2	4	5	6	6	6	7	7	6							0					
	1	2020	AF	48	0	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	2	3	3	3	3	5	7	16			
Engines/Eng ACC																																	
Prior Years Deliveries: 226																																	
	2	2018	AF	56	56	0																						0					
	2	2019	AF	56	18	38	5	5	5	6	6	6	5															0					
	2	2020	AF	48	0	48	-	-	-	-	-	-	-	2	4	3	4	4	4	4	4	4	4	6	5			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 2020 Air Force **Date:** March 2019

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 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																													
Prior Years Deliveries: 226																													
1	2018	AF		56	56	0																							0
1	2019	AF		56	56	0																							0
1	2020	AF		48	32	16	4	6	6																				0

Engines/Eng ACC																													
Prior Years Deliveries: 226																													
2	2018	AF		56	56	0																							0
2	2019	AF		56	56	0																							0
2	2020	AF		48	48	0																							0

							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
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Exhibit P-21, Production Schedule: PB 2020 Air Force	Date: March 2019
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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 2020	1-8-5 For 2020	MAX For 2020	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	8	0	0	0	8	6	22	28
2	Pratt & Whitney - East Hartford, CT	24	48	60	8	0	0	0	6	8	12	20

Remarks:
Production capacity listed has been updated to reflect USAF F-35A only.

"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 2020 Air Force **Date:** March 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,773.693	780.300	406.000	655.500	-	655.500	680.300	434.500	1,030.200	988.000	19,247.905	27,996.398
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,773.693	780.300	406.000	655.500	-	655.500	680.300	434.500	1,030.200	988.000	19,247.905	27,996.398
Total Obligation Authority (<i>\$ in Millions</i>)	3,773.693	780.300	406.000	655.500	-	655.500	680.300	434.500	1,030.200	988.000	19,247.905	27,996.398

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 and the Department of the Air Force and currently resides with the Air Force. 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 FY 2021 aircraft buy, as well as associated termination liability. Additionally advanced procurement funding will provide funding for economic order quantity procurement in support of FY 2021 to FY 2023 JSF aircraft buys.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2020 Air Force				Date: March 2019					
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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			226 / 3,773.693	56 / 780.300	56 / 406.000	48 / 655.500	- / -	48 / 655.500
P-40	Total Gross/Weapon System Cost			226 / 3,773.693	56 / 780.300	56 / 406.000	48 / 655.500	- / -	48 / 655.500

*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 FY2020 budget requests \$655.5M of Advanced Procurement for FY2021 long lead materials, and FY21 thru FY23 Economic Order Quantity materials. The Advance Procurement (AP) funding requested in FY2020 will support Airframe and Engine long-lead parts and materials necessary to protect the Lot 15 delivery schedule.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2020 Air Force					Date: March 2019		
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 (2020) Award Date: January 2020		First System (2020) Completion Date: January 2023			Interval Between Systems: 0 Months		
F-35		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2018 <i>(Each)</i>	FY 2019 <i>(Each)</i>	FY 2020 <i>(Each)</i>	
Quantity		9	226	56	56	48	
Cost Elements		When Required <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2018 <i>(\$ M)</i>	FY 2019 <i>(\$ M)</i>	FY 2020 <i>(\$ M)</i>	
CFE							
Airframe/CFE: Long Lead Material ^(†)		18	3,085.435	373.749	336.980	327.950	
Airframe/CFE: For FY19 Economic Order Quantity (Lot 13)		18	-	165.000	-	0.000	
Airframe/CFE: For FY20 Economic Order Quantity (Lot 14)		30	-	165.000	-	0.000	
Airframe/CFE: For FY21 Economic Order Quantity (Lot 15) ^(†)		0	-	0.000	-	175.380	
Airframe/CFE: For FY22 Economic Order Quantity (Lot 16) ^(†)		0	-	-	-	42.600	
Airframe/CFE: For FY23 Economic Order Quantity (Lot 17) ^(†)		0	-	-	-	42.400	
Airframe/CFE: For FY24 and beyond EOQ		0	-	-	-	-	
Total: CFE			3,085.435	703.749	336.980	588.330	
GFE							
Engines/Eng ACC: Long Lead Material ^(†)		9	688.258	76.551	69.020	67.170	
Total: GFE			688.258	76.551	69.020	67.170	
Total Advance Procurement/Obligation Authority			3,773.693	780.300	406.000	655.500	

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: ATA000 / F-35	P-5 Number / Title: F-35
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Cost Elements	QPA <i>(Each)</i>	Production Leadtime <i>(Months)</i>	FY 2020				Total Cost Request <i>(\$ M)</i>
			Unit Cost <i>(\$ M)</i>	Contract Forecast Date	2020 Qty <i>(Each)</i>	For FY	
CFE							
Airframe/CFE: Long Lead Material ^(†)	1	-	6.832	Mar 2020	48		327.950
Airframe/CFE: For FY19 Economic Order Quantity (Lot 13)	-						0.000
Airframe/CFE: For FY20 Economic Order Quantity (Lot 14)	-						0.000
Airframe/CFE: For FY21 Economic Order Quantity (Lot 15) ^(†)	-	-	-	Mar 2020	-		175.380
Airframe/CFE: For FY22 Economic Order Quantity (Lot 16) ^(†)	-	-	-	Mar 2020	-		42.600
Airframe/CFE: For FY23 Economic Order Quantity (Lot 17) ^(†)	-	-	-	Mar 2020	-		42.400
Airframe/CFE: For FY24 and beyond EOQ	-						-
Total: CFE							588.330
GFE							
Engines/Eng ACC: Long Lead Material ^(†)	1	-	1.399	May 2020	48		67.170
Total: GFE							67.170
Total Advance Procurement/Obligation Authority							655.500

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 2020 Air Force **Date:** February 2019

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-15EX
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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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	8	-	8	18	18	18	18	-	80
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	1,050.000	-	1,050.000	1,652.000	1,685.000	1,719.000	1,753.000	-	7,859.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	1,050.000	-	1,050.000	1,652.000	1,685.000	1,719.000	1,753.000	-	7,859.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	1,050.000	-	1,050.000	1,652.000	1,685.000	1,719.000	1,753.000	-	7,859.000

(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>)	-	-	-	131.250	-	131.250	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	131.250	-	131.250	91.778	93.611	95.500	97.389	-	98.238

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 35 years old with over 8,300 flight hours; the oldest F-15C was delivered in 1979. F-15EX logistics, maintenance, and training will heavily leverage existing the F-15 infrastructure.

All numbers are based on initial program office estimate and will be refined after acquisition program baseline is established.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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-15EX

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	8 / 1,050.000	- / -	8 / 1,050.000
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 0.000	8 / 1,050.000	- / -	8 / 1,050.000

*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:

This program is a new start.

BASIS FOR FY2020 BUDGET REQUEST: The FY20 budget provides funding for 8 F-15EX aircraft and associated production factory tooling, systems integration lab equipment, technical orders, support equipment, training materials, 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 2020 Air Force		Date: February 2019
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: F015E0 / 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	8	-	8
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	1,050.000	-	1,050.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	1,050.000	-	1,050.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	1,050.000	-	1,050.000

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	131.250	-	131.250

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 ^(t)	-	-	-	-	-	-	-	-	-	80.300	8	642.400	-	-	-	80.300	8	642.400
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	642.400	-	-	-	-	-	642.400
Non Recurring Cost																		
Non-Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	407.600	-	-	-	-	-	407.600
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	407.600	-	-	-	-	-	407.600
<i>Subtotal: Flyaway - F-15EX Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1,050.000	-	-	-	-	-	1,050.000
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	0.000	131.250	8	1,050.000	-	-	-	131.250	8	1,050.000

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

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force							Date: February 2019					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3			P-1 Line Item Number / Title: F015E0 / F-15EX				Item Number / Title [DODIC]: F-15EX					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Airframe ^(†)		2020	TBD / TBD	TBD	AFLCMC/WW - Fighter/Bomber	Jul 2020	Jun 2022	8	80.300	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3 **P-1 Line Item Number / Title:** F015E0 / F-15EX **Item Number / Title [DODIC]:** F-15EX

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	2020	AF		8	0	8										A	-	-	-	-	-	-	-	-	-	-	-	8		
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
								C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	F	A	A	U	U	A	S
								T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3 **P-1 Line Item Number / Title:** F015E0 / F-15EX **Item Number / Title [DODIC]:** F-15EX

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	2020	AF		8	0	8	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	1	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 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3 **P-1 Line Item Number / Title:** F015E0 / F-15EX **Item Number / Title [DODIC]:** F-15EX

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		2020	AF		8	4	4	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 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 01 / 3	P-1 Line Item Number / Title: F015E0 / 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 2020	1-8-5 For 2020	MAX For 2020	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	TBD - TBD	2	18	24	0	10	23	33	0	0	0	0

Remarks:
The pre-decisional plan is for the first two aircraft ordered in FY20 to be taken from the existing production line and delivered approximately 2 years after contract award to support flight testing. The subsequent delivery of aircraft 3-8, also ordered in FY20, are expected approximately 3 to 3.5 years after contract award.

"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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	1	-	-	-	-	-	-	-	-	1
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	125.000	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>)	-	0.000	125.000	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>)	-	0.000	125.000	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>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	125.000	-	-	-	-	-	-	-	-	125.000

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 two 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 24-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.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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 and Acquisition Strategy on 11 September 2018. This acquisition leverages the rapid fielding pathway authorized by section 804 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114-92). The program will award a single supply contract with embedded services for Contractor Logistics Support and Engineering Services. The program will utilize Full and Open Competition under Part 15 and Part 12 of the Federal Acquisition Regulation. The program will procure two new aircraft capable of achieving Open Skies Treaty Missions, integrate two 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 2022. 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 2019 and award the Development contract by February 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>In 2019 Open Skies Treaty Aircraft Recapitalization was a New Start.</p> <p>Funding for this exhibit contained in PE 0305145F</p> <p>As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.</p>		
<p>Justification: No Budget Year FY 2020 funding requested.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	34	18	15	12	-	12	15	12	12	15	42	175
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6,020.333	2,927.129	2,290.932	2,234.529	-	2,234.529	2,870.018	2,329.526	2,347.895	2,900.657	8,494.154	32,415.173
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6,020.333	2,927.129	2,290.932	2,234.529	-	2,234.529	2,870.018	2,329.526	2,347.895	2,900.657	8,494.154	32,415.173
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6,020.333	2,927.129	2,290.932	2,234.529	-	2,234.529	2,870.018	2,329.526	2,347.895	2,900.657	8,494.154	32,415.173

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

Initial Spares (<i>\$ in Millions</i>)	375.348	391.323	232.028	-	-	-	175.221	161.861	204.900	239.471	695.456	2,475.608
Flyaway Unit Cost (<i>\$ in Millions</i>)	156.824	150.394	146.258	157.944	-	157.944	165.121	175.989	173.716	179.421	191.666	168.816
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	177.069	162.618	152.729	186.211	-	186.211	191.335	194.127	195.658	193.377	202.242	185.230

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 4 lots are on contract totaling 52 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 FlightSafety 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 three ATS production options were exercised on 19 Aug 2015, 31 May 2017, and 30 Apr 2018. The MTS contract was awarded 6 Jul 2016 to The Boeing Company. The MTS acquisition focuses on designing, developing, testing, producing, and fielding an optimized training system for KC-46 maintainers by integrating various forms of training media and Maintenance Training Devices (MTDs) into a "blended" solution. This blended solution includes the appropriate mix of hardware and software, "high-fidelity" Augmented Hardware Training Devices (AHTDs), PTTs, Interactive Multimedia Instruction (IMI), and emerging technologies to meet validated Air Mobility Command (AMC)

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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>maintenance training requirements. A MTS initial production option (classrooms) was exercised on 15 Jun 2017 in support of ready for training dates, DD250s 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.</p> <p>LRIP began with two FFP and three FFP Not to Exceed (NTE) options (LRIP-1 Qty 7, LRIP-2 Qty 12, LRIP-3 Qty 15, LRIP-4 Qty 18, and LRIP-5 Qty 15) followed by eight FRP options [via NTE values + Economic Price Adjustment (EPA)]. 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; funding procured LAIRCM for Lot 3 and Lot 4 aircraft. FY 2020 funding provides 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 are 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 needs more time to incorporated 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 rebaseline, 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 with a final report due in FY 2019. Developmental Test and Evaluation (DT&E) completed in the first quarter of FY 2019 with the use of LRIP aircraft. KC-46 First Flight occurred on 25 Sep 2015. Initial Operational Test and Evaluation (IOT&E) is scheduled to begin in the third quarter of FY 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) contained in PE 0401897F.</p> <p>Funding for this exhibit contained in PE 0401221F.</p> <p>As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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		34 / 6,020.333	18 / 2,927.129	15 / 2,290.932	12 / 2,234.529	- / -	12 / 2,234.529
P-40	Total Gross/Weapon System Cost				34 / 6,020.333	18 / 2,927.129	15 / 2,290.932	12 / 2,234.529	- / -	12 / 2,234.529

*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 2020 budget supports the procurement of 12 KC-46A aircraft along with other necessary associated expenses to deliver, sustain, and maintain the Lot 6 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 2020 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 2020 funding. The FY 2020 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 2020 funding will include ATS procurement of ATDs, MTS procurement of MTDs, and compulsory elements required to support Aircrew and Maintenance 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 2020 Air Force **Date:** February 2019

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

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	34	18	15	12	-	12
Gross/Weapon System Cost (\$ in Millions)	6,020.333	2,927.129	2,290.932	2,234.529	-	2,234.529
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	6,020.333	2,927.129	2,290.932	2,234.529	-	2,234.529
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	6,020.333	2,927.129	2,290.932	2,234.529	-	2,234.529

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

Initial Spares (\$ in Millions)	375.348	391.323	232.028	0.000	-	0.000
Gross/Weapon System Unit Cost (\$ in Millions)	177.069	162.618	152.729	186.211	-	186.211

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 ^(†)	151.196	34	5,140.679	144.129	18	2,594.325	144.392	15	2,165.882	151.276	12	1,815.310	-	-	-	151.276	12	1,815.310
AME Wing Aerial Refueling Pod (WARP) kits	5.291	15	79.360	5.500	5	27.499	5.599	5	27.993	7.767	5	38.835	-	-	-	7.767	5	38.835
GFE (LAIRCM)	2.430	45	109.363	2.584	33	85.260	-	-	0.000	3.737	9	33.633	-	-	-	3.737	9	33.633
AME (Other)	-	-	2.620	-	-	0.000	-	-	0.000	-	-	7.552	-	-	-	-	-	7.552
<i>Subtotal: Recurring Cost</i>	-	-	5,332.022	-	-	2,707.084	-	-	2,193.875	-	-	1,895.330	-	-	-	-	-	1,895.330
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	5,332.022	-	-	2,707.084	-	-	2,193.875	-	-	1,895.330	-	-	-	-	-	1,895.330
Support - Support End Item Cost																		
Init. Spares	-	-	168.686	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Aircrew Training Systems (ATS)	-	-	105.256	-	-	64.627	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Maintenance Training Systems (MTS)	-	-	1.733	-	-	0.500	-	-	37.626	-	-	0.000	-	-	-	-	-	0.000
Support Equipment	-	-	185.458	-	-	108.115	-	-	3.224	-	-	20.608	-	-	-	-	-	20.608
Operational Site Activation	-	-	0.791	-	-	0.000	-	-	10.870	-	-	1.400	-	-	-	-	-	1.400
Depot Stand-Up	-	-	45.910	-	-	17.329	-	-	19.426	-	-	194.177	-	-	-	-	-	194.177
Interim Contractor Support	-	-	165.817	-	-	8.318	-	-	5.768	-	-	92.799	-	-	-	-	-	92.799
Direct Mission Support	-	-	11.089	-	-	4.956	-	-	0.741	-	-	7.214	-	-	-	-	-	7.214

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Exhibit P-5, Cost Analysis: PB 2020 Air Force												Date: February 2019					
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
PMA - Contractor Services	-	-	2.911	-	-	14.465	-	-	14.831	-	-	13.292	-	-	-	-	-	13.292
PMA - Other Government Costs	-	-	0.660	-	-	1.735	-	-	4.571	-	-	3.327	-	-	-	-	-	3.327
Aeromedical Evacuation Cargo Compartment Trainer	-	-	0.000	-	-	0.000	-	-	0.000	-	-	6.382	-	-	-	-	-	6.382
<i>Subtotal: Support - Support End Item Cost</i>	-	-	688.311	-	-	220.045	-	-	97.057	-	-	339.199	-	-	-	-	-	339.199
Gross/Weapon System Cost	177.069	34	6,020.333	162.618	18	2,927.129	152.729	15	2,290.932	186.211	12	2,234.529	-	-	-	186.211	12	2,234.529

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 will increase significantly in FY20 primarily driven by standup of the 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 funding requirements return to normal in FY 2020 with ICS Period 4.

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 2020 Air Force **Date:** February 2019

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	Jun 2018	Aug 2019	18	144.129	Y		Oct 2016
Airframe ^(†)		2019	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Jul 2019	Aug 2020	15	144.392	Y		Dec 2017
Airframe ^(†)		2020	Boeing / Everett	C / FFP	AFLCMC/WK - Tankers	Jan 2020	Aug 2021	12	151.276	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 will support 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 nineteen (19) receiver aircraft pairings during Phase 3 AR Cert, whichever occurs later. This product baseline will be finalized and validated at the Physical Configuration Audit.

Unit Cost Variations: The Airframe unit cost is based on the aircraft unit prices proposed 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.

RFP Issue Date: Lot 1 & 2 were pre-priced options established at EMD contract award. Feb 2016 represents the Notice of Intent to Exercise Production Options sent to Boeing.

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Exhibit P-21, Production Schedule: PB 2020 Air Force													Date: February 2019												
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 2						P-1 Line Item Number / Title: KC046A / KC-46A MDAP													Item Number / Title [DODIC]: KC-46A MDAP						

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												BALANCE	
O C 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																															
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		

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5			
1		2017	AF	15	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1		2018	AF	18	0	18																						15			
1		2019	AF	15	0	15																						15			
1		2020	AF	12	0	12																						12			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	0				
1		2016	AF	12	7	5	1	1	-	1	-	1	-	-	1														0				
1		2017	AF	15	15	0																							0				
1		2018	AF	18	3	15	2	2	2	1	2	2	1	1	1	1													0				
1		2019	AF	15	0	15	-	-	-	-	-	-	-	-	-	2	1	1	1	1	1	1	1	1	2	1	1	1	2	0			
1		2020	AF	12	0	12				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	10			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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 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																																			
1		2015	AF		7	7																							0						
1		2016	AF		12	12																							0						
1		2017	AF		15	15																							0						
1		2018	AF		18	18																							0						
1		2019	AF		15	15																							0						
1		2020	AF		12	2	10	1	1	1	1	1	1	1	1	1	1												0						
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2020 Air Force		Date: February 2019
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 2020	1-8-5 For 2020	MAX For 2020	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	12	4	19	23

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.
 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 and will have 18 aircraft ready to deliver over 6-months once aircraft deliveries start.
 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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	123	6	8	-	-	-	-	-	-	-	4	141
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9,671.060	639.708	675.858	12.156	-	12.156	37.182	8.593	13.148	8.906	429.872	11,496.483
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	0.000	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	9,671.060	639.708	675.858	12.156	-	12.156	37.182	8.593	13.148	8.906	429.872	11,496.483
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	0.000	0.000
Total Obligation Authority (<i>\$ in Millions</i>)	9,671.060	639.708	675.858	12.156	-	12.156	37.182	8.593	13.148	8.906	429.872	11,496.483
<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>)	70.169	-	-	-	-	-	-	-	-	-	-	70.169
Flyaway Unit Cost (<i>\$ in Millions</i>)	62.599	80.000	79.999	-	-	-	-	-	-	-	92.500	65.175
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	78.627	106.618	84.482	-	-	-	-	-	-	-	107.468	81.535

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 and are not included in the "Prior Years" section of this document.

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, 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.

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

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	C-130J	P-5a, P-21	A		123 / 9,671.060	6 / 639.708	8 / 675.858	- / 12.156	- / -	- / 12.156
P-40	Total Gross/Weapon System Cost				123 / 9,671.060	6 / 639.708	8 / 675.858	- / 12.156	- / -	- / 12.156

*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:
 FY20 funding provides logistics support for aircraft and program management support.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	123	6	8	-	-	-
Gross/Weapon System Cost (\$ in Millions)	9,671.060	639.708	675.858	12.156	-	12.156
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	9,671.060	639.708	675.858	12.156	-	12.156
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	9,671.060	639.708	675.858	12.156	-	12.156

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

Initial Spares (\$ in Millions)	70.169	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	78.627	106.618	84.482	-	-	-

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 ^(†)	60.898	123	7,490.491	78.165	6	468.990	78.143	8	625.144	-	-	-	-	-	-	-	-	-
Other Government Furnished Equipment	-	-	209.136	-	-	11.010	-	-	14.850	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>7,699.627</i>	<i>-</i>	<i>-</i>	<i>480.000</i>	<i>-</i>	<i>-</i>	<i>639.994</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>7,699.627</i>	<i>-</i>	<i>-</i>	<i>480.000</i>	<i>-</i>	<i>-</i>	<i>639.994</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)	-	-	26.125	-	-	1.100	-	-	0.000	-	-	-	-	-	-	-	-	-
Peculiar Training Equipment	-	-	276.437	-	-	115.070	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Publications/Technical Data	-	-	66.819	-	-	1.500	-	-	0.347	-	-	1.011	-	-	-	-	-	1.011
Diminishing Manufacturing Sources (DMS)	-	-	165.279	-	-	8.600	-	-	19.559	-	-	0.000	-	-	-	-	-	0.000
Interim Contractor Support (ICS)	-	-	83.834	-	-	0.800	-	-	1.915	-	-	1.200	-	-	-	-	-	1.200
Interim Supply Support (ISS) (Spares)	-	-	924.499	-	-	18.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Data	-	-	55.386	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Post Delivery Support	-	-	58.860	-	-	1.610	-	-	8.230	-	-	3.233	-	-	-	-	-	3.233

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Exhibit P-5, Cost Analysis: PB 2020 Air Force												Date: February 2019					
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	-	-	58.650	-	-	1.590	-	-	4.299	-	-	3.880	-	-	-	-	-	3.880
PMA Contractor Services	-	-	71.547	-	-	3.831	-	-	0.700	-	-	2.832	-	-	-	-	-	2.832
Other	-	-	34.664	-	-	3.507	-	-	0.814	-	-	0.000	-	-	-	-	-	0.000
PMA Government Services	-	-	108.835	-	-	2.900	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Miscellaneous Equipment	-	-	6.224	-	-	1.200	-	-	0.000	-	-	-	-	-	-	-	-	-
Withhold	-	-	34.274	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	1,971.433	-	-	159.708	-	-	35.864	-	-	12.156	-	-	-	-	-	12.156
Gross/Weapon System Cost	78.627	123	9,671.060	106.618	6	639.708	84.482	8	675.858	-	-	12.156	-	-	-	-	-	12.156

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

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** February 2019

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	78.143	Y		Jul 2018

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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 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																															
Prior Years Deliveries: 104																															
1		2016	AF	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		
							O C T	N O V	D E C	J A N	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 2020 Air Force **Date:** February 2019

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: 104																																	
1		2016	AF	14	0	14	1	1	1	1	1	1	-	-	1	1	1	2	-	1	-	-	-	-	-	-	-	-	-	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	
							O C T	N O V	D E C	J A N	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 2020 Air Force **Date:** February 2019

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: 104																																	
1		2016	AF	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			
							O C T	N O V	D E C	J A N	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 2020 Air Force **Date:** February 2019

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: 104																															
1		2016	AF	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		
							O C T	N O V	D E C	J A N	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 2020 Air Force	Date: February 2019
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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 2020	1-8-5 For 2020	MAX For 2020	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	34	37

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

"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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	26	3	2	-	-	-	-	-	-	-	-	31
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,273.586	301.502	183.837	0.000	0.000	0.000	0.000	0.000	0.000	5.042	0.000	2,763.967
Less PY Advance Procurement (<i>\$ in Millions</i>)	207.877	20.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	227.877
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,065.709	281.502	183.837	0.000	0.000	0.000	0.000	0.000	0.000	5.042	0.000	2,536.090
Plus CY Advance Procurement (<i>\$ in Millions</i>)	227.877	-	-	-	-	-	-	-	-	-	0.000	227.877
Total Obligation Authority (<i>\$ in Millions</i>)	2,293.586	281.502	183.837	0.000	0.000	0.000	0.000	0.000	0.000	5.042	0.000	2,763.967

(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>)	72.843	91.461	91.919	-	-	-	-	-	-	-	-	75.875
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	87.446	100.501	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 reported separately for improved visibility. Eight HC-130Js were procured under the combined HC/MC-130 Recap program (a different budget line). A Congressionally added aircraft increased the total HC-130 Recap program total by one.

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 and will be discussed as the new multi-year delivery order becomes more stable.

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

Program funding includes 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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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		26 / 2,273.586	3 / 301.502	2 / 183.837	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				26 / 2,273.586	3 / 301.502	2 / 183.837	- / 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 2020 funding requested.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (<i>Units in Each</i>)	26	3	2	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,273.586	301.502	183.837	0.000	0.000	0.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	207.877	20.000	0.000	0.000	-	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,065.709	281.502	183.837	0.000	0.000	0.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	227.877	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,293.586	281.502	183.837	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 (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	87.446	100.501	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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 ^(†)	69.035	26	1,794.907	86.361	3	259.082	91.919	2	183.837	-	-	0.000	-	-	-	-	-	0.000
Government Furnished Equipment (GFE)	-	-	57.520	-	-	5.700	-	-	0.000	-	-	-	-	-	-	-	-	-
LAIRCM Group B	-	-	41.490	-	-	9.600	-	-	0.000	-	-	-	-	-	-	-	-	-
Block Upgrade	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1,893.917	-	-	274.382	-	-	183.837	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	1,893.917	-	-	274.382	-	-	183.837	-	-	0.000	-	-	-	-	-	0.000
Support - Support End Item Cost																		
Airframe Peculiar Ground Support Equipment (PGSE)	-	-	14.661	-	-	4.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Peculiar Training Equipment	-	-	75.894	-	-	0.586	-	-	0.000	-	-	-	-	-	-	-	-	-
Publications/Technical Data	-	-	23.355	-	-	1.500	-	-	0.000	-	-	-	-	-	-	-	-	-
Diminishing Manufacturing Sources (DMS)	-	-	37.359	-	-	6.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Interim Contractor Support (ICS)	-	-	21.323	-	-	1.000	-	-	0.000	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
Post Delivery Support	-	-	16.674	-	-	5.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Interim Supply Support (ISS)	-	-	166.183	-	-	5.034	-	-	0.000	-	-	-	-	-	-	-	-	-
Data	-	-	8.257	-	-	1.000	-	-	0.000	-	-	-	-	-	-	-	-	-
PMA Contractor Services	-	-	8.872	-	-	1.000	-	-	0.000	-	-	-	-	-	-	-	-	-
PMA Government Costs	-	-	1.333	-	-	1.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Other Government Cost	-	-	5.758	-	-	1.000	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	379.669	-	-	27.120	-	-	0.000	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	87.446	26	2,273.586	100.501	3	301.502	91.919	2	183.837	-	-	0.000	-	-	0.000	-	-	0.000

Remarks:

The MC-130J, HC-130J, and AC-130J are managed as a common platform and PMA costs are shared. This funding request will support Depot Activation costs, as well as potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.

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

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** February 2019

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	Jul 2022	2	91.919	Y		Mar 2018

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2020 Air Force																	Date: February 2019						
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 2016												Fiscal Year 2017												B A L A N C E	
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
<i>Airframe/Engines/Accessories</i>																															
<i>Prior Years Deliveries: 16</i>																															
1		2016	AF	6	0	6																									
																													6		
1		2017	AF	4	0	4																							4		
1		2018	AF	3	0	3																							3		
1		2019	AF	2	0	2																							2		

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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																			
1		2018	AF	3	0	3													A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																
1		2019	AF	2	0	2																									A	-	2																		
<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>O C T</th> <th>N O V</th> <th>D E C</th> <th>J A N</th> <th>F E B</th> <th>M A R</th> <th>A P R</th> <th>M A Y</th> <th>J U N</th> <th>J U L</th> <th>A U G</th> <th>S E P</th> <th>O C T</th> <th>N O V</th> <th>D E C</th> <th>J A N</th> <th>F E B</th> <th>M A R</th> <th>A P R</th> <th>M A Y</th> <th>J U N</th> <th>J U L</th> <th>A U G</th> <th>S E P</th> </tr> </thead> </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 2020 Air Force **Date:** February 2019

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 #	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			
							O C T	N O V	D E C	J A N	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 2020 Air Force **Date:** February 2019

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 2020 Air Force	Date: February 2019
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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 2020	1-8-5 For 2020	MAX For 2020	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	34	46

Remarks:
There is no procurement of HC-130Js in FY20.

"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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	40	11	6	8	-	8	4	4	1	-	-	74
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,676.061	1,053.373	757.879	1,053.207	-	1,053.207	454.435	436.566	134.466	27.612	20.000	7,613.599
Less PY Advance Procurement (<i>\$ in Millions</i>)	388.122	74.000	30.000	182.000	-	182.000	56.000	56.000	14.000	0.000	-	800.122
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,287.939	979.373	727.879	871.207	-	871.207	398.435	380.566	120.466	27.612	20.000	6,813.477
Plus CY Advance Procurement (<i>\$ in Millions</i>)	462.122	30.000	218.000	40.000	-	40.000	40.000	10.000	0.000	0.000	-	800.122
Total Obligation Authority (<i>\$ in Millions</i>)	3,750.061	1,009.373	945.879	911.207	-	911.207	438.435	390.566	120.466	27.612	20.000	7,613.599

(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>)	74.532	79.851	94.608	98.245	-	98.245	99.410	102.876	107.100	-	-	82.899
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	91.902	95.761	126.313	131.651	-	131.651	113.609	109.142	134.466	-	-	102.886

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 are being reported 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).

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 and will be discussed as the new multi-year delivery order becomes more stable.

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

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 is allocated per aircraft.

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

Program funding includes 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 0207230F.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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		

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	MC-130J	P-5a, P-21	A		40 / 3,676.061	11 / 1,053.373	6 / 757.879	8 / 1,053.207	- / -	8 / 1,053.207
P-40	Total Gross/Weapon System Cost				40 / 3,676.061	11 / 1,053.373	6 / 757.879	8 / 1,053.207	- / -	8 / 1,053.207

*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 2020 budget supports the production of 8 MC-130Js and associated support requirements.

The most recent MYP II contract was negotiated in FY14 to include aircraft buys through FY18.

Prior Year per-aircraft cost 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. However, in FY18 we had 5 Congressionally-added aircraft that were negotiated separately and therefore did not receive the EOQ benefit. In addition, all these aircraft were purchased when Lockheed was operating the production line at a rate of 24 aircraft/year.

Moving forward, the main C-130J program office is currently negotiating the next multi-year procurement (MYIII) contract, which includes FY19-24 production; like MYII, MYIII covers production for all C-130J variants, including our HC/MC-130J aircraft. Currently, the aircraft pricing in the negotiations is based on projected production rates: Calendar Year 19-20 at 24 aircraft per year, Calendar Year 21-23 at 20 aircraft per year, Calendar Year 23-25 at 16 aircraft per year. These lower production rates mean Lockheed's baseline overhead costs are spread across fewer aircraft, driving the per-unit cost up.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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:
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Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (<i>Units in Each</i>)	40	11	6	8	-	8
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,676.061	1,053.373	757.879	1,053.207	-	1,053.207
Less PY Advance Procurement (<i>\$ in Millions</i>)	388.122	74.000	30.000	182.000	-	182.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,287.939	979.373	727.879	871.207	-	871.207
Plus CY Advance Procurement (<i>\$ in Millions</i>)	462.122	30.000	218.000	40.000	-	40.000
Total Obligation Authority (<i>\$ in Millions</i>)	3,750.061	1,009.373	945.879	911.207	-	911.207

(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>)	91.902	95.761	126.313	131.651	-	131.651

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 ^(†)	69.826	40	2,793.027	82.736	10	827.358	89.508	6	537.051	91.370	8	730.963	-	-	-	91.370	8	730.963
Government Furnished Equipment (GFE)	-	-	108.831	-	-	19.000	-	-	11.400	-	-	25.000	-	-	-	-	-	25.000
LAIRCM Group B	-	-	79.431	-	-	32.000	-	-	19.200	-	-	30.000	-	-	-	-	-	30.000
<i>Subtotal: Recurring Cost</i>	-	-	2,981.289	-	-	878.358	-	-	567.651	-	-	785.963	-	-	-	-	-	785.963
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	2,981.289	-	-	878.358	-	-	567.651	-	-	785.963	-	-	-	-	-	785.963
Support - Support End Item Cost																		
Airframe Peculiar Ground Support Equipment (PGSE)	-	-	28.101	-	-	3.225	-	-	3.600	-	-	8.000	-	-	-	-	-	8.000
Peculiar Training Equipment	-	-	269.445	-	-	7.329	-	-	67.167	-	-	47.126	-	-	-	-	-	47.126
Publications/Technical Data	-	-	19.471	-	-	7.500	-	-	7.500	-	-	15.000	-	-	-	-	-	15.000
Diminishing Manufacturing Sources	-	-	37.971	-	-	20.000	-	-	12.000	-	-	38.000	-	-	-	-	-	38.000
Interim Contractor Support (ICS)	-	-	42.613	-	-	1.000	-	-	4.800	-	-	7.000	-	-	-	-	-	7.000
Interim Supply Support (ISS)	-	-	264.098	-	-	116.961	-	-	74.801	-	-	118.118	-	-	-	-	-	118.118

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
Post Delivery Support	-	-	15.141	-	-	10.000	-	-	11.300	-	-	18.000	-	-	-	-	-	18.000
PMA Contractor Services	-	-	9.529	-	-	5.000	-	-	5.000	-	-	8.000	-	-	-	-	-	8.000
PMA Government Services	-	-	0.968	-	-	2.000	-	-	2.000	-	-	4.000	-	-	-	-	-	4.000
Other Government Costs	-	-	7.435	-	-	2.000	-	-	2.060	-	-	4.000	-	-	-	-	-	4.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	694.772	-	-	175.015	-	-	190.228	-	-	267.244	-	-	-	-	-	267.244
Gross/Weapon System Cost	91.902	40	3,676.061	95.761	11	1,053.373	126.313	6	757.879	131.651	8	1,053.207	-	-	-	131.651	8	1,053.207

Remarks:

The MC-130J, HC-130J, and AC-130J are managed as a common platform and PMA costs are shared. This funding request will support Depot Activation costs, as well as potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** February 2019

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	Nov 2019	10	82.736	Y		Oct 2012
Airframe/Engines/Accessories ^(†)		2019	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2018	Jul 2021	6	89.508	Y		Mar 2018
Airframe/Engines/Accessories ^(†)		2020	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Dec 2019	Nov 2021	8	91.370	Y		Mar 2018
Advance Procurement												
Airframe/Engines/Accessories: MC-130J Airframe Equipment		2020	Lockheed Martin / Marietta GA	SS / FPIF	WPAFB, OH	Mar 2020	Nov 2021	4	10.000	Y		Mar 2018

^(†) indicates the presence of a P-21

Remarks:

The most recent MYP II contract was negotiated in FY14 to include aircraft buys through FY18.

Prior Year per-aircraft cost 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. However, in FY18 we had 2 Congressionally-added aircraft, plus a 3rd funded by OCO, that were negotiated separately and therefore did not receive the EOQ benefit. In addition, all these aircraft were purchased when Lockheed was operating the production line at a rate of 24 aircraft/year.

Moving forward, the main C-130J program office is currently negotiating the next multi-year procurement (MYIII) contract, which includes FY19-24 production; like MYII, MYIII covers production for all C-130J variants, including our HC/MC-130J aircraft. Currently, the aircraft pricing in the negotiations is based on projected production rates: Calendar Year 19-20 at 24 aircraft per year, Calendar Year 21-23 at 20 aircraft per year, Calendar Year 23-25 at 16 aircraft per year. These lower production rates mean Lockheed's baseline overhead costs are spread across fewer aircraft, driving the per-unit cost up.

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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 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		8	0	8																							8				
1	2016	CG (‡)		1	0	1																							1				
1	2016	FMS (‡)		12	0	12																							12				
1	2016	MC (‡)		2	0	2																							2				
1	2016	OTH (‡)(1)		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		10	0	10																							10				
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		26	0	26																							26				
1	2019	AF		6	0	6																							6				
1	2019	CG (‡)		1	0	1																							1				
1	2019	HC/MC (‡)		2	0	2																							2				
1	2019	MC (‡)		2	0	2																							2				
1	2019	Total		11	0	11																							11				
1	2020	AF		8	0	8																							8				
1	2020	CG (‡)		1	0	1																							1				
1	2020	MC (‡)		3	0	3																							3				
1	2020	Total		12	0	12																							12				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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 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/Engines/Accessories																																			
Prior Years Deliveries: 26																																			
1	2016	AF		8	0	8	-	1	1	1	-	1	1	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	0			
1	2016	CG (‡)		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2016	FMS (‡)		12	0	12	-	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	8			
1	2016	MC (‡)		2	0	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	0			
1	2016	OTH (‡)(1)		3	0	3	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2016	Total		26	0	26	-	4	1	1	-	1	2	2	1	1	1	-	-	-	1	-	-	-	1	-	-	1	1	-	-	1	-	-	8
1	2017	AF		6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	1	1	1		
1	2017	CG (‡)		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
1	2017	HC/MC (‡)		8	0	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	6	
1	2017	MC (‡)		2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1		
1	2017	Total		17	0	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	1	-	1	2	9		
1	2018	AF		10	0	10			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10		
1	2018	CG (‡)		1	0	1			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
1	2018	HC/MC (‡)		9	0	9			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9		
1	2018	MC (‡)		6	0	6			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6		
1	2018	Total		26	0	26			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26		
1	2019	AF		6	0	6																											6		
1	2019	CG (‡)		1	0	1																											1		
1	2019	HC/MC (‡)		2	0	2																											2		
1	2019	MC (‡)		2	0	2																											2		
1	2019	Total		11	0	11																											11		
1	2020	AF		8	0	8																											8		
1	2020	CG (‡)		1	0	1																											1		
1	2020	MC (‡)		3	0	3																											3		
1	2020	Total		12	0	12																											12		
									O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2020													Fiscal Year 2021													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Airframe/Engines/Accessories																																	
Prior Years Deliveries: 26																																	
1	2016	AF		8	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	CG (†)		1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	FMS (†)		12	4	8	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5				
1	2016	MC (†)		2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	OTH (†)(1)		3	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	Total		26	18	8	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5				
1	2017	AF		6	5	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	CG (†)		1	0	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	HC/MC (†)		8	2	6	1	1	-	-	-	1	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	MC (†)		2	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2017	Total		17	8	9	1	1	-	-	-	1	-	2	2	1	1	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	AF		10	0	10	-	1	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	1	3				
1	2018	CG (†)		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	0				
1	2018	HC/MC (†)		9	0	9	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	1	-	-	5				
1	2018	MC (†)		6	0	6	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1	-	-	-	-	0				
1	2018	Total		26	0	26	1	1	2	-	1	1	-	1	-	-	-	-	-	2	-	1	2	-	1	2	1	1	8				
1	2019	AF		6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	3				
1	2019	CG (†)		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1				
1	2019	HC/MC (†)		2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2				
1	2019	MC (†)		2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	0				
1	2019	Total		11	0	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	6				
1	2020	AF		8	0	8	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8				
1	2020	CG (†)		1	0	1	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1				
1	2020	MC (†)		3	0	3	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3				
1	2020	Total		12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2022													Fiscal Year 2023													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Airframe/Engines/Accessories																																	
Prior Years Deliveries: 26																																	
1	2016	AF		8	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	CG (‡)		1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	FMS (‡)		12	7	5	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	0				
1	2016	MC (‡)		2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	OTH (‡)(1)		3	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2016	Total		26	21	5	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	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		10	7	3	-	-	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	CG (‡)		1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	HC/MC (‡)		9	4	5	1	-	1	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	MC (‡)		6	6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018	Total		26	18	8	1	-	2	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2019	AF		6	3	3	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	0				
1	2019	CG (‡)		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	0				
1	2019	HC/MC (‡)		2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	0				
1	2019	MC (‡)		2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2019	Total		11	5	6	-	-	-	-	-	-	-	-	-	-	2	1	1	-	-	-	1	-	1	-	-	-	0				
1	2020	AF		8	0	8	-	1	1	-	1	1	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	0				
1	2020	CG (‡)		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	0				
1	2020	MC (‡)		3	0	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1				
1	2020	Total		12	0	12	-	1	1	-	1	1	1	1	-	-	-	1	1	-	-	-	-	-	1	1	-	1					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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		8	8	0																							0				
1	2016	CG (+)		1	1	0																							0				
1	2016	FMS (+)		12	12	0																							0				
1	2016	MC (+)		2	2	0																							0				
1	2016	OTH (+)(1)		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		10	10	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		26	26	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2019	AF		6	6	0																							0				
1	2019	CG (+)		1	1	0																							0				
1	2019	HC/MC (+)		2	2	0																							0				
1	2019	MC (+)		2	2	0																							0				
1	2019	Total		11	11	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2020	AF		8	8	0	-	-	-																				0				
1	2020	CG (+)		1	1	0	-	-	-																				0				
1	2020	MC (+)		3	2	1	-	-	1																				0				
1	2020	Total		12	11	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 2020 Air Force	Date: February 2019
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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 2020	1-8-5 For 2020	MAX For 2020	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	23	26

Remarks:
As mentioned on Page 1 of Exhibit P-40, the HC/MC production leverages the larger C-130J MYPII/MYPIII contracts that cover all C-130J variants. What appear to be gaps in production are filled by other, non-HC/MC aircraft on those contract(s).

The MC-130J P-21 (PE 0207230F), Line Item P-8, depicts the complete C-130J production line 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 2017 loaded in the month of first delivery.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2020 Air Force							Date: February 2019					
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	462.122	30.000	218.000	40.000	-	40.000	40.000	10.000	0.000	0.000	-	800.122
Net Procurement (P-1) (<i>\$ in Millions</i>)	462.122	30.000	218.000	40.000	-	40.000	40.000	10.000	0.000	0.000	-	800.122
Total Obligation Authority (<i>\$ in Millions</i>)	462.122	30.000	218.000	40.000	-	40.000	40.000	10.000	0.000	0.000	-	800.122

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 are being reported 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).

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

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 is allocated per aircraft.

Funding for this exhibit is contained in PE 0207230F.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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			40 / 462.122	11 / 30.000	6 / 218.000	8 / 40.000	- / -	8 / 40.000
P-40	Total Gross/Weapon System Cost			40 / 462.122	11 / 30.000	6 / 218.000	8 / 40.000	- / -	8 / 40.000

*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 FY20 budget supports advance procurement for 4 FY21 MC-130J aircraft.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2020 Air Force					Date: February 2019		
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 (2020) Award Date: December 2016		First System (2020) Completion Date: December 2017			Interval Between Systems: 1 Months		
MC-130J		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2018 <i>(Each)</i>	FY 2019 <i>(Each)</i>	FY 2020 <i>(Each)</i>	
Quantity		12	40	11	6	8	
Cost Elements		When Required <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2018 <i>(\$ M)</i>	FY 2019 <i>(\$ M)</i>	FY 2020 <i>(\$ M)</i>	
CFE							
Airframe/Engines/Accessories: MC-130J Airframe Equipment (†)		12	462.122	30.000	130.000	40.000	
Total: CFE			462.122	30.000	130.000	40.000	
EOQ							
Airframe/Engines/Accessories: MC-130J Economic Order Quantity Items		12	-	-	88.000	-	
Total: EOQ			-	-	88.000	-	
Total Advance Procurement/Obligation Authority			462.122	30.000	218.000	40.000	

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2020 Air Force						Date: February 2019	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 02 / 3			P-1 Line Item Number / Title: C130JM / MC-130J			P-5 Number / Title: MC-130J	
Cost Elements	QPA <i>(Each)</i>	FY 2020					
		Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ M)</i>	Contract Forecast Date	2020 Qty <i>(Each)</i>	For FY	Total Cost Request <i>(\$ M)</i>
CFE							
Airframe/Engines/Accessories: MC-130J Airframe Equipment ^(t)	-	12	10.000	Mar 2020	4		40.000
<i>Total: CFE</i>							40.000
EOQ							
Airframe/Engines/Accessories: MC-130J Economic Order Quantity Items	-						-
<i>Total: EOQ</i>							-
Total Advance Procurement/Obligation Authority							40.000

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 are being reported 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).

Typically \$10 million Advance Procurement (AP) is allocated per aircraft. The quantity of aircraft planned to be procured in FY20 changed from 13 to 8 since FY19 PB. However, the FY19 AP amount has not been reduced accordingly.

Funding for this exhibit is contained in PE 0207230F.

(t) 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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	10	12	-	12	16	13	12	12	28	103
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	660.358	884.235	-	884.235	1,015.772	876.340	854.839	851.542	1,930.000	7,073.086
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	660.358	884.235	-	884.235	1,015.772	876.340	854.839	851.542	1,930.000	7,073.086
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	660.358	884.235	-	884.235	1,015.772	876.340	854.839	851.542	1,930.000	7,073.086

(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>)	-	-	51.007	51.788	-	51.788	49.346	45.882	51.426	54.295	54.435	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	66.036	73.686	-	73.686	63.486	67.411	71.237	70.962	68.929	68.671

Description:

The Combat Rescue Helicopter (CRH) 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 CRH 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 CRH 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 CRH 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 CRH 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 CRH 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 Sikorsky Aircraft Company to develop and procure 113 CRH 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 103 aircraft throughout eight lots. Low rate initial production (LRIP), Lots 1 and 2, will procure up to 22 aircraft with FY19 & FY20 funds. Full rate production (FRP), Lots 3 through 8, will procure the remaining aircraft through 2026. Initial aircraft sustainment efforts will be provided by the contractor. CRH 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 CRH planning activities, and potential Diminishing Manufacturing Sources (DMS) and obsolescence planning activities.

The CRH 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) funding in FY19 and FY20. Spare engines are included within the Initial Spares.

CRH is moving toward a MS C decision in Sep 19 with the FRP Decision in FY21. The CRH program conducted the Critical Design Review (CDR) in May 2017.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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>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> <p>As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Combat Rescue Helicopter	P-5a, P-21	B		- / -	- / 0.000	10 / 660.358	12 / 884.235	- / -	12 / 884.235
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	10 / 660.358	12 / 884.235	- / -	12 / 884.235

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

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

Justification:
 The program will procure the second LRIP lot of 12 aircraft in FY20 with associated initial spares, support equipment, depot-stand up activity, site activation support, training, and other program management administration activities.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	10	12	-	12
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	660.358	884.235	-	884.235
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	660.358	884.235	-	884.235
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	660.358	884.235	-	884.235

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

Initial Spares (<i>\$ in Millions</i>)	-	-	0.000	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	66.036	73.686	-	73.686

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 - Combat Rescue Helicopter Cost																		
Recurring Cost																		
Airframe / CFE ^(†)	-	-	-	-	-	0.000	41.245	10	412.454	41.432	12	497.181	-	-	-	41.432	12	497.181
Other Flyaway Costs	-	-	-	-	-	0.000	-	-	97.617	-	-	124.275	-	-	-	-	-	124.275
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	510.071	-	-	621.456	-	-	-	-	-	621.456
<i>Subtotal: Flyaway - Combat Rescue Helicopter Cost</i>	-	-	-	-	-	0.000	-	-	510.071	-	-	621.456	-	-	-	-	-	621.456
Support - Combat Rescue Helicopter Cost																		
Support Equipment	-	-	-	-	-	-	-	-	15.235	-	-	7.628	-	-	-	-	-	7.628
Training	-	-	-	-	-	-	-	-	17.065	-	-	133.507	-	-	-	-	-	133.507
Site Activation	-	-	-	-	-	-	-	-	11.582	-	-	10.467	-	-	-	-	-	10.467
Initial Spares	-	-	-	-	-	-	-	-	88.883	-	-	81.718	-	-	-	-	-	81.718
OGC / PMA	-	-	-	-	-	-	-	-	17.522	-	-	29.459	-	-	-	-	-	29.459
<i>Subtotal: Support - Combat Rescue Helicopter Cost</i>	-	-	-	-	-	-	-	-	150.287	-	-	262.779	-	-	-	-	-	262.779
Gross/Weapon System Cost	-	-	-	-	-	0.000	66.036	10	660.358	73.686	12	884.235	-	-	-	73.686	12	884.235

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** February 2019

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	C / FPIF	AFLCMC/WI - ISR & SOF	Sep 2019	Feb 2021	10	41.245	N	Jun 2019	
Airframe / CFE ^(†)		2020	Sikorsky Aircraft / Stratford, CT	C / FPIF	AFLCMC/WI - ISR & SOF	Apr 2020	Mar 2022	12	41.432	N	Jun 2019	

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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 2019												Fiscal Year 2020												BALANCE									
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020																				
							O C T	N O V	D E C	J A N	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													A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10		
	1	2020	AF	12	0	12																																	12
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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						0				
1		2020	AF	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	5			
							O C T	N O V	D E C	J A N	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 2020 Air Force **Date:** February 2019

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Airframe / CFE																															
	1	2019	AF	10	10	0																							0		
	1	2020	AF	12	7	5	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 2020 Air Force **Date:** February 2019

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
---	---	---

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2020	1-8-5 For 2020	MAX For 2020	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	6	10	12	0	7	23	30	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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	2	-	2	-	2	-	-	-	-	-	4
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	130.000	0.000	161.000	-	161.000	0.000	0.000	0.000	0.000	-	291.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	130.000	0.000	161.000	-	161.000	0.000	0.000	0.000	0.000	-	291.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	130.000	0.000	161.000	-	161.000	0.000	0.000	0.000	0.000	-	291.000

(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>)	-	65.000	-	76.600	-	76.600	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	65.000	-	80.500	-	80.500	-	-	-	-	-	72.750

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 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 is 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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0401314F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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-37A	P-5a, P-21	A		- / -	2 / 130.000	- / 0.000	2 / 161.000	- / -	2 / 161.000
P-40	Total Gross/Weapon System Cost				- / -	2 / 130.000	- / 0.000	2 / 161.000	- / -	2 / 161.000

*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:
FY 2020 funding procures two C-37B aircraft, interim supply support, support equipment, and program management administration.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 4	P-1 Line Item Number / Title: C03700 / C-37A	Item Number / Title [DODIC]: C-37A

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (<i>Units in Each</i>)	-	2	-	2	-	2
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	130.000	0.000	161.000	-	161.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	130.000	0.000	161.000	-	161.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	130.000	0.000	161.000	-	161.000

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	65.000	-	80.500	-	80.500

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 - C-37 Fleet Expansion Cost																		
Recurring Cost																		
C-37B Aircraft ^(t)	-	-	-	65.000	2	130.000	-	-	0.000	76.600	2	153.200	-	-	-	76.600	2	153.200
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	130.000	-	-	0.000	-	-	153.200	-	-	-	-	-	153.200
<i>Subtotal: Flyaway - C-37 Fleet Expansion Cost</i>	-	-	-	-	-	130.000	-	-	0.000	-	-	153.200	-	-	-	-	-	153.200
Support - C-37 Fleet Expansion Cost																		
Support Equipment	-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
PMA - Other Government Costs	-	-	-	-	-	-	-	-	-	-	-	2.300	-	-	-	-	-	2.300
Interim Supply Support	-	-	-	-	-	-	-	-	-	-	-	5.000	-	-	-	-	-	5.000
<i>Subtotal: Support - C-37 Fleet Expansion Cost</i>	-	-	-	-	-	-	-	-	-	-	-	7.800	-	-	-	-	-	7.800
Gross/Weapon System Cost	-	-	-	65.000	2	130.000	-	-	0.000	80.500	2	161.000	-	-	-	80.500	2	161.000

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

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 4	P-1 Line Item Number / Title: C03700 / C-37A	Item Number / Title [DODIC]: C-37A
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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
C-37B Aircraft ^(†)		2020	Gulfstream / Savannah, GA	SS / IDIQ	AFLCMC Tinker AFB	Jan 2020	Jul 2021	2	76.600	Y		Jun 2019

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 4 **P-1 Line Item Number / Title:** C03700 / C-37A **Item Number / Title [DODIC]:** C-37A

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		
C-37B Aircraft																																	
	1	2020	AF		2	0	2					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 4 **P-1 Line Item Number / Title:** C03700 / C-37A **Item Number / Title [DODIC]:** C-37A

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023										BALANCE	
O C 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
C-37B Aircraft																															
	1	2020	AF	2	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 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 4	P-1 Line Item Number / Title: C03700 / C-37A	Item Number / Title [DODIC]: C-37A
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2020	1-8-5 For 2020	MAX For 2020	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	Gulfstream - Savannah, GA	1	2	2	12	4	18	22	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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	19	17	4	-	4	4	4	4	4	-	56
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	10.600	10.800	2.767	-	2.767	2.815	2.872	2.923	2.976	-	35.753
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	10.600	10.800	2.767	-	2.767	2.815	2.872	2.923	2.976	-	35.753
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	10.600	10.800	2.767	-	2.767	2.815	2.872	2.923	2.976	-	35.753

(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>)	-	0.449	0.457	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	0.558	0.635	0.692	-	0.692	0.704	0.718	0.731	0.744	-	0.638

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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

Justification:

FY20 funding of \$2.767M 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.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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		

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 2020 Air Force **Date:** February 2019

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: 10PALE / Pale Ale
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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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	1	-	-	-	-	-	-	-	-	-	1
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	28.500	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	28.500
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	28.500	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	28.500
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	28.500	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	28.500

(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>)	-	28.500	-	-	-	-	-	-	-	-	-	28.500

Description:

Funding supports drug interdiction and counter-drug activities.

Funding was laid in FY 2018 as part of an FY 2018 Congressional add.

Funding for this exhibit contained in PE 0208889F.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

Justification:

FY 2018 funding was used to procure 1 each Pale Ale aircraft that supports drug interdiction and counter-drug activities.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	42	37	37	-	37	37	37	37	38	-	265
Gross/Weapon System Cost (<i>\$ in Millions</i>)	347.024	105.841	100.953	130.837	-	130.837	133.454	136.127	138.600	141.095	-	1,233.931
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	347.024	105.841	100.953	130.837	-	130.837	133.454	136.127	138.600	141.095	-	1,233.931
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	347.024	105.841	100.953	130.837	-	130.837	133.454	136.127	138.600	141.095	-	1,233.931

(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>)	-	2.520	2.728	3.536	-	3.536	3.607	3.679	3.746	3.713	-	4.656

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. 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 Targets.

Funds may be used to resolve production DMS/MS/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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Target Drones		A		- / -	- / 3.681	- / 2.499	- / 2.543	- / -	- / 2.543
P-5	835160 AFSAT	P-5a, P-21	A		- / 20.477	30 / 32.929	29 / 31.402	25 / 27.652	- / -	25 / 27.652
P-5	QF-16	P-5a, P-21	A		- / 326.547	12 / 69.231	8 / 67.052	12 / 100.642	- / -	12 / 100.642
P-40	Total Gross/Weapon System Cost				- / 347.024	42 / 105.841	37 / 100.953	37 / 130.837	- / -	37 / 130.837

*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:
 FY20 AFSAT funds will be used to procure 25 USAF production assets, support equipment, sustaining, production and diminishing manufacturing engineering support.
 FY20 QF-16 funds will be used to procure 12 USAF production assets, support equipment, sustaining, production and diminishing manufacturing engineering support.
 FY20 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.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: 10TRGT / Target Drones	Item Number / Title [DODIC]: Target Drones
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	3.681	2.499	2.543	-	2.543
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	3.681	2.499	2.543	-	2.543
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	3.681	2.499	2.543	-	2.543

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

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

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	-	-	-	-	-	3.681	-	-	2.499	-	-	2.543	-	-	-	-	-	2.543
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	3.681	-	-	2.499	-	-	2.543	-	-	-	-	-	2.543
<i>Subtotal: Hardware - Target Control System Cost</i>	-	-	-	-	-	3.681	-	-	2.499	-	-	2.543	-	-	-	-	-	2.543
Gross/Weapon System Cost	-	-	-	-	-	3.681	-	-	2.499	-	-	2.543	-	-	-	-	-	2.543

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	-	30	29	25	-	25
Gross/Weapon System Cost (\$ in Millions)	20.477	32.929	31.402	27.652	-	27.652
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	20.477	32.929	31.402	27.652	-	27.652
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	20.477	32.929	31.402	27.652	-	27.652

(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)	-	1.098	1.083	1.106	-	1.106

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)	1.024	20	20.477	1.054	30	31.631	1.017	29	29.486	1.040	25	25.988	-	-	-	1.040	25	25.988
<i>Subtotal: Recurring Cost</i>	-	-	20.477	-	-	31.631	-	-	29.486	-	-	25.988	-	-	-	-	-	25.988
<i>Subtotal: Flyaway - AFSAT Cost</i>	-	-	20.477	-	-	31.631	-	-	29.486	-	-	25.988	-	-	-	-	-	25.988
Logistics - AFSAT Cost																		
Recurring Cost																		
Production Support	-	-	-	-	-	0.097	-	-	0.096	-	-	0.069	-	-	-	-	-	0.069
Government Support	-	-	-	-	-	0.450	-	-	0.455	-	-	0.613	-	-	-	-	-	0.613
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.547	-	-	0.551	-	-	0.682	-	-	-	-	-	0.682
<i>Subtotal: Logistics - AFSAT Cost</i>	-	-	-	-	-	0.547	-	-	0.551	-	-	0.682	-	-	-	-	-	0.682
Support - AFSAT Cost																		
PMA Contractor Services	-	-	-	-	-	0.651	-	-	0.802	-	-	0.824	-	-	-	-	-	0.824
PMA Other Government Costs	-	-	-	-	-	0.100	-	-	0.563	-	-	0.158	-	-	-	-	-	0.158
<i>Subtotal: Support - AFSAT Cost</i>	-	-	-	-	-	0.751	-	-	1.365	-	-	0.982	-	-	-	-	-	0.982
Gross/Weapon System Cost	-	-	20.477	1.098	30	32.929	1.083	29	31.402	1.106	25	27.652	-	-	-	1.106	25	27.652

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

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** February 2019

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 ^(†)		2017	Composite Engineering Inc. / Sacramento CA	SS / FFP	Eglin AFB	Feb 2017	Dec 2017	20	1.072	Y		May 2013
BQM-167 Production Article ^(†)		2018	Kratos, Unmanned Aerial Systems (UAS), Inc / Sacramento CA	SS / FFP	Eglin AFB	Aug 2018	May 2019	30	1.054	Y		Aug 2016
BQM-167 Production Article ^(†)		2019	Kratos, Unmanned Aerial Systems (UAS), Inc. / Sacramento CA	SS / FFP	Eglin AFB	Mar 2019	Apr 2020	29	1.017	Y		Aug 2016
BQM-167 Production Article ^(†)		2020	Kratos, Unmanned Aerial systems (UAS), Inc. / Sacramento, CA	SS / FFP	Eglin AFB	Mar 2020	Apr 2021	25	1.040	Y		Aug 2016

^(†) indicates the presence of a P-21

Remarks:

- Specs available due to Pre Priced options in multi year contract
- Lots 11-13 production contract (base year plus 2 option years) awarded in December 2014 via sole source contract; FY17-Lot 13
- Lots 14-16 production contract (base year plus 2 option years) awarded in August 2018 via sole source contract; FY18-Lot 14; FY19-Lot 15; FY20-Lot 16
- Unit cost based on quantity price bands

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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 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			
BQM-167 Production Article																																	
1		2017	AF	20	18	2	1	1																					0				
2		2018	AF	30	0	30	-	-	-	-	-	-	-	2	3	3	3	3	3	3	3	2	3	3	2				0				
3		2019	AF	29	0	29								A	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	3	3	15	
4		2020	AF	25	0	25																			A	-	-	-	-	-	-	25	
							O C T	N O V	D E C	J A N	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 2020 Air Force **Date:** February 2019

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	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
BQM-167 Production Article																														
1		2017	AF	20	20	0																							0	
2		2018	AF	30	30	0																							0	
3		2019	AF	29	14	15	3	3	3	2	2	2																	0	
4		2020	AF	25	0	25	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	3	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 2020 Air Force **Date:** February 2019

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 2020	1-8-5 For 2020	MAX For 2020	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	Composite Engineering Inc. - Sacramento CA				0	0	0	0	0	0	0	0	0
2	Kratos, Unmanned Aerial Systems (UAS), Inc - Sacramento CA				0	0	0	0	0	0	0	0	0
3	Kratos, Unmanned Aerial Systems (UAS), Inc. - Sacramento CA				0	0	0	0	0	0	0	0	0
4	Kratos, Unmanned Aerial systems (UAS), Inc. - Sacramento, CA	22	25	35	0	0	0	0	0	6	13	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 2020 Air Force		Date: February 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	-	12	8	12	-	12
Gross/Weapon System Cost (\$ in Millions)	326.547	69.231	67.052	100.642	-	100.642
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	326.547	69.231	67.052	100.642	-	100.642
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	326.547	69.231	67.052	100.642	-	100.642

(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)	-	5.769	8.382	8.387	-	8.387

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 ^(†)	1.385	82	113.544	1.862	12	22.338	4.000	8	32.000	4.181	12	50.177	-	-	-	4.181	12	50.177
<i>Subtotal: Recurring Cost</i>	-	-	113.544	-	-	22.338	-	-	32.000	-	-	50.177	-	-	-	-	-	50.177
Non Recurring Cost																		
Aircraft Vehicle Regeneration	-	-	148.312	-	-	21.628	-	-	4.470	-	-	26.187	-	-	-	-	-	26.187
Engine Regeneration	-	-	64.691	-	-	15.371	-	-	17.963	-	-	11.475	-	-	-	-	-	11.475
<i>Subtotal: Non Recurring Cost</i>	-	-	213.003	-	-	36.999	-	-	22.433	-	-	37.662	-	-	-	-	-	37.662
<i>Subtotal: Flyaway - QF-16 Cost</i>	-	-	326.547	-	-	59.337	-	-	54.433	-	-	87.839	-	-	-	-	-	87.839
Hardware - QF-16 Cost																		
Recurring Cost																		
Storage/Shipment	-	-	-	-	-	0.000	-	-	0.419	-	-	0.419	-	-	-	-	-	0.419
GFP Support	-	-	-	-	-	3.959	-	-	4.569	-	-	3.447	-	-	-	-	-	3.447
Other Support	-	-	-	-	-	3.101	-	-	5.230	-	-	6.934	-	-	-	-	-	6.934
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	7.060	-	-	10.218	-	-	10.800	-	-	-	-	-	10.800
<i>Subtotal: Hardware - QF-16 Cost</i>	-	-	-	-	-	7.060	-	-	10.218	-	-	10.800	-	-	-	-	-	10.800
Logistics - QF-16 Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5		P-1 Line Item Number / Title: 10TRGT / Target Drones
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Item Number / Title [DODIC]: QF-16		

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	-	-	-	-	-	1.075	-	-	0.075	-	-	0.075	-	-	-	-	-	0.075
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.075	-	-	0.075	-	-	0.075	-	-	-	-	-	0.075
<i>Subtotal: Logistics - QF-16 Cost</i>	-	-	-	-	-	1.075	-	-	0.075	-	-	0.075	-	-	-	-	-	0.075
Support - QF-16 Cost																		
PMA Contractor Services	-	-	-	-	-	1.348	-	-	1.385	-	-	1.385	-	-	-	-	-	1.385
PMA Other Government Costs	-	-	-	-	-	0.411	-	-	0.941	-	-	0.543	-	-	-	-	-	0.543
<i>Subtotal: Support - QF-16 Cost</i>	-	-	-	-	-	1.759	-	-	2.326	-	-	1.928	-	-	-	-	-	1.928
Gross/Weapon System Cost	-	-	326.547	5.769	12	69.231	8.382	8	67.052	8.387	12	100.642	-	-	-	8.387	12	100.642

Remarks:

Unit price for follow-on production contract (Lots 6-8) currently is an estimate. Lot 6 award delayed due to FY19 appropriation being below minimum sustainment rate; award planned for 2QFY20. The contract for Lots 1-5 reflects competitive pricing, follow-on production is sole source.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** February 2019

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		2019	The Boeing Company / St Louis MO	SS / FPIF	Eglin AFB	Nov 2019	Nov 2022	8	4.000	Y		Jan 2019
QF-16 Drone Peculiar Equipment ^(†)		2020	The Boeing Company / St Louis MO	SS / FPIF	Eglin AFB	Mar 2020	Mar 2022	12	4.181	Y		Jan 2019

^(†) indicates the presence of a P-21

Remarks:

- Contract quantities include United States Air Force (USAF) only
- FY19 Appropriated amount resulted in a reduction of quantities below the minimum sustainment rate

CURRENT CONTRACTS:

- Lot 2 (21 USAF tails) Awarded with FY13 (2 aircraft) and FY14 (19 aircraft) funds
- Lot 3 (25 USAF tails) Awarded with FY14 (6 aircraft) and FY15 (19 aircraft) funds
- Lot 4 (25 USAF tails) 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: Planned Award - 2QFY20

- Lot 6 (12 USAF tails) to award with FY20 funds

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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 C #	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		
							O C T	N O V	D E C	J A N	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 2020 Air Force **Date:** February 2019

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	2	-	1	1	-	1	1	-	1	1	-	-	1	1	2	2	2	2			0			
1		2014	NAVY ⁽²⁾	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-			0				
1		2014	Total	27	6	21	-	-	1	2	-	1	1	-	1	1	-	1	1	1	1	1	1	2	2	2	2	-	-	0			
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			
							O C T	N O V	D E C	J A N	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 2020 Air Force **Date:** February 2019

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020														Fiscal Year 2021														BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020														Calendar Year 2021														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
QF-16 Drone Peculiar Equipment																																			
1		2014	AF ⁽¹⁾	25	25	0																							0						
1		2014	NAVY ^(‡)	2	2	0																							0						
1		2014	Total	27	27	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0						
1		2015	AF	19	6	13	3	2	3	3	2																		0						
1		2016	AF	25	0	25	-	-	-	-	-	3	2	3	2	3	-	-	2	3	2	3	2						0						
1		2016	NAVY ^(‡)	5	0	5	-	-	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-						0						
1		2016	Total	30	0	30	-	-	-	-	-	3	2	3	2	3	2	3	2	3	2	3	2	-	-	-	-	-	0						
1		2017	AF	13	0	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	1	-	0					
1		2017	NAVY ^(‡)	5	0	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	0						
1		2017	Total	18	0	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	0					
1		2018	AF	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9						
1		2020	AF	12	0	12						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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 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			
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	2	-	1	1	-	-	1	1	1	1	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 2020 Air Force	Date: February 2019
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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 2020	1-8-5 For 2020	MAX For 2020	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 2 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 2017 loaded in the month of first delivery.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	1	2	1	-	1	1	1	1	1	-	8
Gross/Weapon System Cost (<i>\$ in Millions</i>)	103.000	111.573	216.113	114.095	-	114.095	117.014	121.221	123.423	125.645	-	1,032.084
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	103.000	111.573	216.113	114.095	-	114.095	117.014	121.221	123.423	125.645	-	1,032.084
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	103.000	111.573	216.113	114.095	-	114.095	117.014	121.221	123.423	125.645	-	1,032.084

(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>)	-	111.573	108.057	114.095	-	114.095	117.014	121.221	123.423	125.645	-	129.011

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 first quarter of FY 2019 include the following resources: thirteen (13) EC-130H Total Active Inventory (TAI) aircraft, 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), two (2) are Backup Aircraft Inventory (BAI), and one (1) is Primary Development/Test Aircraft Inventory (PDAI). Two EC-130H aircraft were divested in the fourth quarter of FY 2018.

Transitioning to the re-host effort, the program of record procured two (2) commercial derivative aircraft (known as EC-37B); one was procured in late FY 2017 and one in late FY 2018. Two aircraft will be procured in FY 2019 following a congressional add to accelerate procurement of the fourth EC-37B aircraft and one (1) will be procured in FY 2020; bringing the program of record to five (5) aircraft. These aircraft will receive Prime Mission Equipment (PME) from legacy donor EC-130H aircraft, as well as new, 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.

The program's Doctrine, Organization, Training, materiel, Leadership & Education, Personnel, Facilities (DOTmLPF) Change Recommendation (DCR) was approved and validated on 23 March 2016. The DCR 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 requirements of the combatant commands. The USAF began the procurement of the replacement capability for the EC-130H COMPASS CALL fleet in FY 2017. Additional EC-37B aircraft will be procured at a rate of one (1) aircraft per year with the exception of FY 2019 where two aircraft will be procured following a congressional add until a total of ten (10) aircraft are procured. FY 2018 National Defense Authorization Act limitations delayed obligations on the re-host program, causing an overall schedule delay. The program regained the ability to obligate funding in June 2018. Consequently, the program schedule has been realigned taking into account the delay in issuing contract awards.

Due to the age of the EC-130H fleet (average is 45 years), the re-hosting of the PME is crucial to ensuring the survival of this critical capability. The re-hosted COMPASS CALL platform will utilize 70% of the PME off of the current airframe without modification; the remaining 30% of PME will be new or modified (repackaged) for the re-host. 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 Electronic Attack (EA) 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). The platform will undergo modifications to host COMPASS CALL's PME and antenna arrays and receive additional STCs and Military Type Certificates (MTC).

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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		
<p>EC-130H airframe maintenance costs have increased every year and the re-hosting effort will dramatically curtail COMPASS CALL maintenance costs. The re-hosted COMPASS CALL platform will be maintained via contractor logistics support in order to maintain its FAA STC. This will further decrease the cost of aircraft maintenance and free up active duty maintenance billets for other USAF priorities.</p> <p>The COMPASS CALL Program is managed by the 645th Aeronautical Systems Group. Funding for this exhibit is contained in PE 0207253F.</p> <p>As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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

Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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		- / 103.000	1 / 111.573	2 / 216.113	1 / 114.095	- / -	1 / 114.095
P-40	Total Gross/Weapon System Cost				- / 103.000	1 / 111.573	2 / 216.113	1 / 114.095	- / -	1 / 114.095

*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 FY20 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 2020 Air Force		Date: February 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (<i>Units in Each</i>)	-	1	2	1	-	1
Gross/Weapon System Cost (<i>\$ in Millions</i>)	103.000	111.573	216.113	114.095	-	114.095
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	103.000	111.573	216.113	114.095	-	114.095
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	103.000	111.573	216.113	114.095	-	114.095

(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>)	-	111.573	108.057	114.095	-	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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)	101.791	1	101.791	111.366	1	111.366	108.056	2	216.113	114.095	1	114.095	-	-	-	114.095	1	114.095
<i>Subtotal: Recurring Cost</i>	-	-	<i>101.791</i>	-	-	<i>111.366</i>	-	-	<i>216.113</i>	-	-	<i>114.095</i>	-	-	-	-	-	<i>114.095</i>
<i>Subtotal: Vehicles - Compass Call Cost</i>	-	-	<i>101.791</i>	-	-	<i>111.366</i>	-	-	<i>216.113</i>	-	-	<i>114.095</i>	-	-	-	-	-	<i>114.095</i>
Support - Compass Call Cost																		
PMA - Other Gov't Costs	-	-	1.209	-	-	0.207	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Compass Call Cost</i>	-	-	<i>1.209</i>	-	-	<i>0.207</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	103.000	111.573	1	111.573	108.057	2	216.113	114.095	1	114.095	-	-	-	114.095	1	114.095

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

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** February 2019

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 ^(†)		2017	L-3 Technologies / Greenville, TX	SS / FFP	AFLCMC/WI - ISR & SOF	Aug 2017	Mar 2023	1	103.000	Y		May 2017
Aircraft ^(†)		2018	L-3 Technologies / Greenville, TX	SS / FFP	AFLCMC/WI - ISR & SOF	Jun 2018	Mar 2023	1	111.366	Y		Jun 2018
Aircraft ^(†)		2019	L-3 Technologies / Greenville, TX	SS / FFP	AFLCMC/WI - ISR & SOF	Mar 2019	Mar 2023	2	108.057	Y		Aug 2018
Aircraft ^(†)		2020	L-3 Technologies / Greenville, TX	SS / FFP	AFLCMC/WI - ISR & SOF	Feb 2020	Mar 2023	1	114.095	Y		Aug 2019

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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																																			
1		2017	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			
1		2018	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			
1		2019	AF	2	0	2																									2				
1		2020	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 2020 Air Force **Date:** February 2019

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 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																																	
1		2017	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			
1		2018	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			
1		2019	AF	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
1		2020	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 2020 Air Force **Date:** February 2019

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																															
1		2017	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1		2018	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1		2019	AF	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1		2020	AF	1	0	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 2020 Air Force	Date: February 2019
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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 2020	1-8-5 For 2020	MAX For 2020	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	L-3 Technologies - Greenville, TX	1	2	2	0	0	0	0	0	0	5	37	42

Remarks:
Aircraft delivery date - date aircraft is delivered to Air Combat Command.

"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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	4	10	10	-	24
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	100.000	0.000	-	0.000	0.000	160.000	400.005	400.005	-	1,060.010
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	100.000	0.000	-	0.000	0.000	160.000	400.005	400.005	-	1,060.010
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	100.000	0.000	-	0.000	0.000	160.000	400.005	400.005	-	1,060.010

(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>)	-	-	-	-	-	-	-	40.000	40.001	40.001	-	44.167

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.

The LAA 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, Interim Contractor Support (ICS), and support equipment.

Funding for this exhibit is contained in PE 0207100F.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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		
As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.		
Justification: There are currently no FY20 procurement funds being requested for Light Attack aircraft.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	347	16	24	3	9	12	9	17	2	3	-	430
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6,204.741	389.221	401.603	189.205	172.240	361.445	302.303	502.127	223.679	57.432	216.760	8,659.311
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6,204.741	389.221	401.603	189.205	172.240	361.445	302.303	502.127	223.679	57.432	216.760	8,659.311
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6,204.741	389.221	401.603	189.205	172.240	361.445	302.303	502.127	223.679	57.432	216.760	8,659.311

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

Initial Spares (<i>\$ in Millions</i>)	685.020	186.164	61.843	72.852	43.060	115.912	82.817	121.776	37.907	14.358	23.170	1,328.967
Flyaway Unit Cost (<i>\$ in Millions</i>)	14.815	23.045	15.883	42.012	19.138	24.856	26.193	23.732	63.785	11.851	-	16.712
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	17.881	24.326	16.733	63.068	19.138	30.120	33.589	29.537	111.840	19.144	-	20.138

Description:

FY18 funding totals include \$88.968M appropriated for OCO.

FY19 funding totals include \$265.7M appropriated for OCO.

12 Aircraft from FY17 OCO buy will support Government Own Contractor Operated (GOCO) efforts.

16 Aircraft from FY19 OCO buy will be used to replace 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, Readiness Spares Packages (RSP), technical data/training, and personnel required to operate, maintain, and sustain the system. The system is designed to be modular and open-ended. Mission-specific equipment is employed in a plug-and-play mission kit concept allowing specific aircraft and Ground Control Station (GCS) configurations to be tailored to fit mission needs. Due to the nature of the platform, all future production requirements may vary based on warfighter necessity and available funding.

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 altitude for long endurance sorties. The aircraft is being designed primarily to prosecute 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 will employ fused multi-spectral sensor information 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 system 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. Near-term 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. Future GCS configurations will leverage

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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>the Unmanned Aerospace System (UAS) Command and Control (C2) Initiative (UCI) government-owned open system standard to enable improved capabilities for situational awareness and multi-mission management monitoring and oversight.</p> <p>Flyaway cost subtotal includes GCS, Ground Data Terminals (GDTs), and Predator Primary Satellite Links (PPSLs) which are not procured in the same quantities as aircraft. Thus, the unit flyaway cost will fluctuate from year to year as different quantities of GCSs, GDTs, and PPSLs are procured.</p> <p>Block 50 GCS production initial buys will be used for Tactics, Techniques, and Procedures (TTP) development for the Remotely Piloted Aircraft (RPA) school house and other training units. The initial production of Block 50 was delayed in order to meet a new single Operational Flight Program (OFP) requirement. Block 30 GCS deliveries will be complete as of the end of 2020.</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), The Raytheon Company for the Multi-Spectral Targeting System-B (MTS-B) 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 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) 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> <p>As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 04: Other Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
PRDTB1 / MQ-9

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

Line Item MDAP/MAIS Code: 424

Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	P-5a, P-21	A		347 / 6,204.741	16 / 389.221	24 / 401.603	3 / 189.205	9 / 172.240	12 / 361.445
P-40	Total Gross/Weapon System Cost				347 / 6,204.741	16 / 389.221	24 / 401.603	3 / 189.205	9 / 172.240	12 / 361.445

*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. Aircraft Production - FY20 OCO funding procures 9 of the latest configuration of the MQ-9 aircraft to support service life replacement of aging aircraft.

B. Production Support - FY20 funding included in Production Support consists of Engineering Change Orders (ECO) urgent services, and non-recurring production costs associated with diminishing manufacturing sources, reliability and maintenance (R&M), safety enhancements, and higher level initiatives directed by the Air Force.

C. Ground Control Station (GCS) & Government Furnished Equipment (GFE) - FY20 funding procures GCSs, used for MQ-9 operations to support the standup, fielding, and sustainment of 60 Combat Lines (CL). This effort procures GCS. The GCS functions as the aircraft cockpit and can control the aircraft from either within line-of-sight (LOS) or beyond LOS (BLOS) via a combination of satellite relay and terrestrial communication architectures. GCS are used to support Remote Split Operations (RSO) from Continental United States locations, and launch/recovery from forward operating locations. The total quantity and configuration procured is determined by budget and mission requirements. Due to budget reductions the FY24 Block 50 GCS buy will be removed.

D. Training Device/Simulator - FY20 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.

E. Support Equipment - FY20 funding procures, but is not limited to, test equipment, Ruggedized Aircraft Maintenance Test Stations (RAMTS) and cooling carts, in support of the aircraft and GCS Operations.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force											Date: February 2019				
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:				
Resource Summary				Prior Years		FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	
Procurement Quantity (Units in Each)				347		16		24		3		9		12	
Gross/Weapon System Cost (\$ in Millions)				6,204.741		389.221		401.603		189.205		172.240		361.445	
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
Net Procurement (P-1) (\$ in Millions)				6,204.741		389.221		401.603		189.205		172.240		361.445	
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
Total Obligation Authority (\$ in Millions)				6,204.741		389.221		401.603		189.205		172.240		361.445	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>															
Initial Spares (\$ in Millions)				685.020		186.164		61.843		72.852		43.060		115.912	
Gross/Weapon System Unit Cost (\$ in Millions)				17.881		24.326		16.733		63.068		19.138		30.120	

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 ⁽¹⁾	12.384	347	4,297.168	16.456	16	263.300	15.883	24	381.193	22.703	3	68.110	19.138	9	172.240	20.029	12	240.350
Production Support	-	-	217.229	-	-	6.021	-	-	-	-	-	0.990	-	-	-	-	-	0.990
Fixed Ground Control Station and GFE ⁽¹⁾	2.782	89	247.632	-	-	-	-	-	-	3.904	12	46.845	-	-	-	3.904	12	46.845
Mobile Ground Control Station and GFE	3.161	39	123.283	6.850	4	27.400	-	-	-	-	-	-	-	-	-	-	-	-
Dual Ground Control Station and GFE	5.084	11	55.921	4.500	16	72.000	-	-	-	-	-	-	-	-	-	-	-	-
Ground Data Terminals	0.320	144	46.072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Predator Primary Satellite Link (PPSL)	1.238	124	153.518	-	-	-	-	-	-	-	-	10.090	-	-	-	-	-	10.090
<i>Subtotal: Recurring Cost</i>	-	-	5,140.823	-	-	368.721	-	-	381.193	-	-	126.035	-	-	172.240	-	-	298.275
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	5,140.823	-	-	368.721	-	-	381.193	-	-	126.035	-	-	172.240	-	-	298.275
Support - Support End Item Cost																		
Other Government Costs (OGC)	-	-	135.815	-	-	20.500	-	-	20.410	-	-	16.930	-	-	-	-	-	16.930
Initial Spares/Deployment Support Kits	-	-	596.365	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Support Equipment	-	-	224.373	-	-	0.000	-	-	0.000	-	-	10.440	-	-	-	-	-	10.440
Training Device/Simulator	-	-	107.365	-	-	0.000	-	-	0.000	-	-	35.800	-	-	-	-	-	35.800

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Exhibit P-5, Cost Analysis: PB 2020 Air Force												Date: February 2019					
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
Production Shutdown	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	1,063.918	-	-	20.500	-	-	20.410	-	-	63.170	-	-	-	-	-	63.170
Gross/Weapon System Cost	17.881	347	6,204.741	24.326	16	389.221	16.733	24	401.603	63.068	3	189.205	19.138	9	172.240	30.120	12	361.445

Remarks:

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 FY15 and is currently planned through FY18. Air Combat Command (ACC) is conducting analysis which can cause GCS quantity to change in year of execution. Due to budget reductions the FY24 Block 50 GCS buy will be removed.

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.

Aircraft Unit costs increase from \$15.883 in FY19 to \$20.029M in FY20 due to decrease in aircraft quantities. 12 aircraft are the Minimum Sustaining Rate (MSR) for MQ-9; reduced quantities below the economic order quantity result in increased unit costs.

No Ground Control Stations (GCS) procurements planned for FY24 due to budget constraints.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: PRDTB1 / MQ-9	Item Number / Title [DODIC]: MQ-9
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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 (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
MQ-9 Reaper Aircraft and GFE ^(†)		2015	GA-ASI / Poway, CA	SS / FPIF	AFLCMC Wright Patterson AFB	Aug 2016	Jul 2018	24	13.367	Y		Dec 2015
MQ-9 Reaper Aircraft and GFE ^(†)		2016	GA-ASI / Poway, CA	SS / FFP	AFLCMC Wright Patterson AFB	Apr 2017	Jul 2019	33	13.770	Y		Jan 2016
MQ-9 Reaper Aircraft and GFE ^(†)		2017	GA-ASI / Poway, CA	SS / FFP	AFLCMC Wright Patterson AFB	Mar 2018	May 2020	24	14.325	Y		Dec 2016
MQ-9 Reaper Aircraft and GFE ^(†)		2018	GA-ASI / Poway, CA	SS / FFP	AFLCMC Wright Patterson AFB	Nov 2018	Jan 2021	16	16.456	Y		Dec 2017
MQ-9 Reaper Aircraft and GFE ^(†)		2019	GA-ASI / Poway, CA	SS / FFP	AFLCMC Wright Patterson AFB	Sep 2019	Aug 2021	24	15.883	Y		Oct 2018
MQ-9 Reaper Aircraft and GFE ^(†)		2020	GA-ASI / Poway, CA	SS / FFP	AFLCMC Wright Patterson AFB	Jul 2020	Aug 2022	3	22.703	Y		Dec 2019
MQ-9 Reaper Aircraft and GFE ^(†)	✓	2020	GA-ASI / Poway, CA	SS / FFP	AFLCMC Wright Patterson AFB	Jul 2020	Nov 2022	9	19.138	Y		Dec 2019
Fixed Ground Control Station and GFE ^(†)		2015	GA-ASI / Poway, CA	SS / FFP	AFLCMC Wright Patterson AFB	Nov 2016	Oct 2017	11	3.518	Y		Oct 2014
Fixed Ground Control Station and GFE ^(†)		2016	GA-ASI / Poway, CA	SS / FFP	AFLCMC Wright Patterson AFB	Jul 2017	Nov 2018	15	3.154	Y		Aug 2015
Fixed Ground Control Station and GFE ^(†)		2020	GA-ASI / Poway, CA	SS / FFP	AFLCMC Wright Patterson AFB	Jul 2020	Dec 2021	12	3.904	Y		Jul 2019

^(†) indicates the presence of a P-21

Remarks:

MQ-9 Integrated Program Review (IPR) completed 11 Sep 2017, program ID Code is now Code 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.

MQ-9 Aircraft

Four (4) of the thirty-three (33) FY16 aircraft were purchased using Overseas Contingency Operations (OCO) funding

Twenty-four (24) FY17 aircraft were purchased using OCO funding.

Four(4) FY18 aircraft will be purchased using OCO funding.

Sixteen(16) FY19 aircraft will be purchased using OCO funding.

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: PRDTB1 / MQ-9	Item Number / Title [DODIC]: MQ-9
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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					
MQ-9 Reaper Aircraft and GFE																																			
Prior Years Deliveries: 266																																			
	1	2015	AF	24	0	24	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	0						
	1	2016	AF	33	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	24			
	2	2017	AF	24	0	24																									24				
	2	2018	AF	16	0	16																									16				
	1	2019	AF	24	0	24																									24				
	1	2020	AF	3	0	3																									3				
✓	1	2020	AF	9	0	9																									9				
Fixed Ground Control Station and GFE																																			
Prior Years Deliveries: 63																																			
	3	2015	AF	11	0	11	2	2	3																						4				
	3	2016	AF	15	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	3	3	3	3	3	1			0				
	3	2020	AF	12	0	12																										12			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5 **P-1 Line Item Number / Title:** PRDTB1 / MQ-9 **Item Number / Title [DODIC]:** MQ-9

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020													Fiscal Year 2021													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 1 9	BAL D U E A S O F 1 O C T	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			
MQ-9 Reaper Aircraft and GFE																																	
Prior Years Deliveries: 266																																	
	1	2015	AF	24	24	0																							0				
	1	2016	AF	33	9	24	3	3	3	3	3	3	3																0				
	2	2017	AF	24	0	24	-	-	-	-	-	-	-	2	3	2	3	2	3	2	3	2	2						0				
	2	2018	AF	16	0	16	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	3	2	3	2	3	1	0					
	1	2019	AF	24	0	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	20					
	1	2020	AF	3	0	3									A	-	-	-	-	-	-	-	-	-	-	-	-	3					
✓	1	2020	AF	9	0	9									A	-	-	-	-	-	-	-	-	-	-	-	-	9					
Fixed Ground Control Station and GFE																																	
Prior Years Deliveries: 63																																	
	3	2015	AF	11	7	4																						4					
	3	2016	AF	15	15	0																						0					
	3	2020	AF	12	0	12									A	-	-	-	-	-	-	-	-	-	-	-	-	12					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5 **P-1 Line Item Number / Title:** PRDTB1 / MQ-9 **Item Number / Title [DODIC]:** MQ-9

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			

MQ-9 Reaper Aircraft and GFE

Prior Years Deliveries: 266																												
1	2015	AF		24	24	0																						0
1	2016	AF		33	33	0																						0
2	2017	AF		24	24	0																						0
2	2018	AF		16	16	0																						0
1	2019	AF		24	4	20	2	2	2	2	2	2	2	2	2													0
1	2020	AF		3	0	3	-	-	-	-	-	-	-	-	-	1	1	1										0
✓ 1	2020	AF		9	0	9	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	0

Fixed Ground Control Station and GFE

Prior Years Deliveries: 63																														
3	2015	AF		11	7	4																						4		
3	2016	AF		15	15	0																						0		
3	2020	AF		12	0	12	-	-	1	1	1	1	1	1	1	1	1	1	1	1								0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 04 / 5	P-1 Line Item Number / Title: PRDTB1 / MQ-9	Item Number / Title [DODIC]: MQ-9
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2020	1-8-5 For 2020	MAX For 2020	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	GA-ASI - Poway, CA	12	16	36	0	0	0	0	0	0	10	25	35
2	GA-ASI - Poway, CA				0	0	0	0	0	0	0	0	0
3	GA-ASI - Poway, CA	12	24	48	0	10	17	27	0	0	0	0	0

Remarks:
 MQ-9 Reaper Aircraft: This effort will procure Block 5 MQ-9 Reaper aircraft and associated Multi-spectral Targeting System (MTS-B) Electro-Optical/Infra-Red (EO/IR) sensors, Lynx Synthetic Aperture Radar (SAR) sensors, and Hellfire launchers and rails.

The FY12 aircraft production took longer than twelve (12) months due to the Block 1 to Block 5 aircraft production line conversion, and the Accelerated Extended Range JUON production cut-in.

Due to Follow On Test & Evaluation (FOT&E) compliance discussions, the FY13 aircraft did not begin delivery until August 2016. This further led to a delay in negotiations for the FY15 aircraft buy, causing a four (4) month production break. This production break is captured in the FY14 funding that was utilized in the FY15 aircraft buy. FY14 funding was utilized on the FY15 aircraft buy to accelerate the FY18 requirement.

"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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	20	-	18	18	20	19	18	16	-	111
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	13.500	0.000	12.150	12.150	13.770	12.813	12.012	10.876	-	75.121
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	13.500	0.000	12.150	12.150	13.770	12.813	12.012	10.876	-	75.121
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	13.500	0.000	12.150	12.150	13.770	12.813	12.012	10.876	-	75.121

(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>)	-	-	0.675	-	0.675	0.675	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	0.675	-	0.675	0.675	0.689	0.674	0.667	0.680	-	0.677

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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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, P-21	A		- / -	- / 0.000	20 / 13.500	- / 0.000	18 / 12.150	18 / 12.150
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	20 / 13.500	- / 0.000	18 / 12.150	18 / 12.150

*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 FY20 OCO request will procure RQ-20Bs to support 10 Unit Type Codes (UTCs) (60 x RQ-20B aircraft and associated parts/accessories).

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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:
---	------------------------

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	20	-	18	18
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	13.500	0.000	12.150	12.150
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	13.500	0.000	12.150	12.150
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	13.500	0.000	12.150	12.150

(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>)	-	-	0.675	-	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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 ^(†)	-	-	-	-	-	0.000	0.675	20	13.500	-	-	0.000	0.675	18	12.150	0.675	18	12.150
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	13.500	-	-	0.000	-	-	12.150	-	-	12.150
<i>Subtotal: Flyaway - RQ-20B Puma Cost</i>	-	-	-	-	-	0.000	-	-	13.500	-	-	0.000	-	-	12.150	-	-	12.150
Gross/Weapon System Cost	-	-	-	-	-	0.000	0.675	20	13.500	-	-	0.000	0.675	18	12.150	0.675	18	12.150

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** February 2019

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
---	--	--

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	Mar 2019	Sep 2019	20	0.675	Y		
RQ-20B Puma ^(†)	✓	2020	AeroVironment / Simi Valley, CA	MIPR	N/A	Mar 2020	Sep 2020	18	0.675	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2020 Air Force	Date: February 2019
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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
---	--	--

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2020	1-8-5 For 2020	MAX For 2020	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	AeroVironment - Simi Valley, CA			40	0	0	0	0	0	0	6	6	12

"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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	1,161.839	820.508	708.230	44.560	752.790	937.814	995.448	884.380	949.242	-	6,502.021
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	1,161.839	820.508	708.230	44.560	752.790	937.814	995.448	884.380	949.242	-	6,502.021
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	1,161.839	820.508	708.230	44.560	752.790	937.814	995.448	884.380	949.242	-	6,502.021

(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 2018 funding totals include \$129.450M appropriated for Overseas Contingency Operations.
FY 2019 funding totals include \$91.500M 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

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.

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 2020 Air Force		Date: February 2019
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		
As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	- / -	- / 1,161.839	- / 820.508	- / 708.230	- / 44.560	- / 752.790
P-40	Total Gross/Weapon System Cost				- / -	- / 1,161.839	- / 820.508	- / 708.230	- / 44.560	- / 752.790

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: FY20 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: FY20 funds are required for spare parts for BQM-167 and QF-16. Spares include replacement components, equipment and parts.

Gorgon Stare: FY20 funds are required to procure initial spares for Beyond Line of Sight (BLOS) equipment (\$1.5M OCO). This equipment supports the fielding of a full Wide Area Motion Imagery (WAMI) freedom of maneuver capability on Gorgon Stare Increment 2 (GS2) equipped MQ-9s.

Precision Attack Systems Procurement: FY20 funds are required to procure initial spares for the Advanced Targeting Pod (ATP) components.

B-52: FY20 funds are required to procure initial spares for Bomber Tactical Data link.

C-17: FY20 funds are necessary for C-17 to procure initial spares of the hardware kits for upcoming modification programs BLOS, RHUD, and other production efforts.

C-5: FY20 funds are necessary 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 and CMC/WxR. These spares include CNS/ATM and CMC/WxR Group A and Group B items such as SATCOM, ARC-210's, WxR, remote control units, cables/harnesses, etc.

Combat Developments: FY20 funds are necessary to provide initial spares for E-9 Systems Modifications (Spares).

Compass Call: FY20 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.

EQ-4B BACN: The initial spares program funds 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.

F-15: The FY20 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 FY20 are F-15C/D IRST, F-15 C/E ADCP II, F-15 C/D SLEP Longerons, F-15 C/D/E Mode 5, F-15 C/D/E MIDS-JTRS, and F-15E APG-82(V)1.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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		

F-35: The F-35 initial spares requirement for FY 2020 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 2020 consists of its contribution to GSP; one (1) BSP to support RAF Lakenheath; and two (2) DSPs (AF DSPs 11 and 12)

E-4B National Airborne Operations Center (NAOC): FY20 funds are required to establish MUOS and AEHF initial spares as well as low cost modification initial spares

F-15 EPAWSS: The Initial Spares inventory is crucial to the successful fielding of the EPAWSS modification. The spares are used to fill the initial inventory at all levels of supply from initial fielding through the demand development period.

F-16 Squadrons: The FY20 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), Automatic Dependent Surveillance-Broadcast (ADS-B) Mode 5, Comm Suite Radio Upgrade, Digital Radar Warning Receiver (DRWR), Multifunctional Information Distribution System Joint Tactical Radio System (MIDS JTRS), and Training Simulators.

F-22 Squadrons: The FY2020 funds are required to procure the initial Link 16, Sensor Enhancement, Crypto Modification pipeline, 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 (NSA) mandates. Mode 5 IFF enables IFF Transpond and Interrogate capabilities on all Block 30/35 F-22 aircraft. Initial spares, to include repairable and consumables must be available for issue at all levels of supply in time to support newly fielded end items.

HH-60: FY20 funds will be used for purchasing spares in support of the HH-60G Multi-Function Color Display, Degraded Visual Environment, and datalink programs.

KC-135S: The FY20 funding will be used to purchase initial spares kits for the AERO-I SATCOM modification which will begin installing in FY20.

MQ-9: The FY20 funding procures the initial spare parts required to provide initial support newly fielded MQ-9 Weapon Systems, including Multi-spectral Targeting System (MTS) and the Ground Control Station (GCS). These spares are needed to maintain readiness, maintainability, and aircraft availability levels necessary to execute validated combat operations requirements

Global Hawk RQ-4: The FY20 initial spares program support initial fielding of numerous modification programs efforts including, but not limited to, radar sensors, Enhanced Integrated Sensor Suite (EISS) Electro-Optical/Infrared (EO/IR) sensor, imagery, engine, ground stations and other modernization efforts.

Undergraduate Pilot Training (UPT), T-1: FY20 funds are necessary to procure initial SUPT and CSO Aircraft and Simulator spares to support and maintain modified equipment.

RC-135 Aircraft: FY20 funds are required to procure initial spares in support of modifications of three different RC-135 aircraft mission design series utilizing seven separate engineering baselines. The initial spares consist of numerous non-stocklisted, commercial-off-the-shelf (COTS) LRU's, SRU's and piece part electronic components necessary for initial fielding and operations at seven world-wide operating locations.

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2020 Air Force						Date: February 2019	
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 2018 (\$ M)	FY 2019 (\$ M)	FY 2020 Base (\$ M)	FY 2020 OCO (\$ M)	FY 2020 Total (\$ M)	
Initial							
BA 06 - Aircraft Spares and Repair Parts							
A01000 / A-10 Squadrons	-	0.000	0.000	5.171	0.000	5.171	
10TRGT / Aerial Targets	-	0.596	0.579	0.589	0.000	0.589	
DARP01 / Airborne Reconnaissance Systems	-	0.216	7.500	28.097	1.500	29.597	
OTHACF / Precision Attack Systems Procurement	-	2.944	3.310	3.367	0.000	3.367	
B01B00 / B-1B Squadrons	-	6.906	0.000	0.000	0.000	0.000	
B00200 / B-2 Squadrons	-	4.361	0.000	0.000	0.000	0.000	
B05200 / B-52 Squadrons	-	4.823	0.174	2.499	0.000	2.499	
C13000 / C-130 Airlift Squadron	-	2.814	0.616	0.000	0.000	0.000	
C01700 / C-17 Aircraft (IF)	-	45.248	12.850	12.103	0.000	12.103	
C00500 / C-5 AIRLIFT SQUADRONS (IF)	-	1.952	2.755	2.053	0.000	2.053	
OTHACF / Combat Developments	-	0.151	0.152	0.155	0.000	0.155	
CALL00 / Compass Call	-	10.050	10.618	10.805	0.000	10.805	
V022A0 / CV-22 [212]	-	0.241	0.000	0.000	0.000	0.000	
11U200 / Dragon U-2	-	11.900	0.000	0.000	0.000	0.000	
E00300 / Airborne Warning and Control System (AWACS) [277]	-	21.139	0.048	24.175	0.000	24.175	
E00400 / E-4B National Airborne Operations Center (NAOC)	-	0.972	1.061	0.332	0.000	0.332	
EQ04B0 / EQ-4B	-	0.000	0.000	3.480	0.000	3.480	
F01500 / F-15A/B/C/D Squadrons	-	0.089	2.670	22.499	0.000	22.499	
F15EWS / F-15 EPAWSS	-	0.000	0.000	4.185	0.000	4.185	
F01500E / F-15E Squadrons	-	6.383	9.109	15.647	0.000	15.647	
F01600 / F-16 Squadrons	-	13.701	11.235	30.463	0.000	30.463	
F02200 / F-22A Squadrons [265]	-	6.854	3.745	12.058	0.000	12.058	
ATA000 / F-35 Squadrons [198]	-	400.431	357.565	401.080	0.000	401.080	
FBLOST / Family of Advanced BLoS Terminals (FAB-T) [199]	-	1.203	6.140	0.000	0.000	0.000	
OTHACF / Full Combat Mission Training	-	0.219	0.000	0.000	0.000	0.000	
H06000 / Combat Rescue - HH-60	-	1.661	1.788	1.818	0.000	1.818	
C01000 / KC-10s	-	0.067	0.030	0.000	0.000	0.000	
C13500 / KC-135S	-	0.000	2.246	2.291	0.000	2.291	
KC046A / KC-46A Tanker Squadrons [387]	-	391.323	232.028	0.000	0.000	0.000	
PRDT01 / MQ-1 Predator A UAV	-	0.058	0.000	0.000	0.000	0.000	

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2020 Air Force **Date:** February 2019

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 2018 (\$ M)	FY 2019 (\$ M)	FY 2020 Base (\$ M)	FY 2020 OCO (\$ M)	FY 2020 Total (\$ M)
PRDTB1 / MQ-9 UAV [424]	-	153.243	96.390	72.852	43.060	115.912
JPATS0 / New AETC Aircraft Systems	-	0.524	0.590	0.000	0.000	0.000
C02500 / Operational Support Airlift	-	0.242	4.800	0.000	0.000	0.000
DARP01 / RC-135	-	45.615	49.520	50.448	0.000	50.448
HAEUAV / RQ-4 UAV [252]	-	25.913	2.069	0.746	0.000	0.746
T00100 / Undergraduate Pilot Training (UPT)	-	0.000	0.920	1.317	0.000	1.317
Subtotal: Initial	-	1,161.839	820.508	708.230	44.560	752.790
Total Cost (Initial + Replenishment)	-	1,161.839	820.508	708.230	44.560	752.790

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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
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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
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	26.027	102.005	113.770	84.938	7.025	91.963	112.805	125.270	126.356	131.568	0.000	829.764
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	26.027	102.005	113.770	84.938	7.025	91.963	112.805	125.270	126.356	131.568	0.000	829.764
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	26.027	102.005	113.770	84.938	7.025	91.963	112.805	125.270	126.356	131.568	0.000	829.764

(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:

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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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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		
<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 7,000 lbs, respectfully, and used in support of the A-10, B-1, B-2, B-52, C-130, F-15, F-16, F-22, 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) 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</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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		
<p>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>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, 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 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>		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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		
<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 seven 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 258 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).</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 parallelable, 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)</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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
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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
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Line Item MDAP/MAIS Code: N/A

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.

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.

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.

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-2 Common Organizational Level Tester (COLT), 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).

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.

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

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

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

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

Secondary Distribution		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024
AF	Quantity	613	164	100	0	100	-	-	-	-
	Total Obligation Authority	100.139	113.042	66.018	7.025	73.043	14.348	25.082	51.743	51.812

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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
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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
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024
AFNG	Quantity	9	1	0	0	0	-	-	-	-
	Total Obligation Authority	1.050	0.728	13.301	0.000	13.301	-	-	-	-
AFR	Quantity	7	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.816	0.000	5.619	0.000	5.619	-	-	-	-
Total: Secondary Distribution	Quantity	629	165	100	0	100	-	-	-	-
	Total Obligation Authority	102.005	113.770	84.938	7.025	91.963	14.348	25.082	51.743	51.812

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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				- / -	- / 4.720	- / 5.000	- / 0.000	- / -	- / 0.000
P-5	B-1B Advanced REW Test Station (ARTS)		A		- / -	- / 0.848	- / 0.000	- / 3.400	- / -	- / 3.400
P-40a	Aerial Stores Lift Trucks				- / -	- / 16.836	- / 3.724	- / -	- / 1.000	- / 1.000
P-40a	Aircraft Engine Handling Equipment				- / -	- / -	- / -	- / -	- / 0.140	- / 0.140
P-40a	Aircraft Maintenance Testers				- / -	- / -	- / 0.000	- / 22.188	- / -	- / 22.188
P-3a	1 / MHU-196/204 SLEP (Service Life Extension)		B		- / 26.027	- / 5.769	- / 6.979	- / 9.230	- / 0.000	- / 9.230
P-40a	ATS - Base Maint & Spt Eq				- / -	- / 0.662	- / 10.544	- / 0.744	- / 0.000	- / 0.744
P-40a	ATS TMDE-Electronic				- / -	- / 0.000	- / 0.100	- / 2.500	- / 0.000	- / 2.500
P-40a	B-52 MUSTANG Tester				- / -	- / 6.272	- / 0.000	- / 1.500	- / -	- / 1.500
P-5	Bomber Armament Tester		B		- / -	- / -	- / 0.000	- / 6.600	- / 0.000	- / 6.600
P-40a	BP12 ITEMS LESS THAN 5 MILLION DOLLARS				- / -	- / 18.942	- / 33.829	- / -	- / -	- / -
P-5	COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)		A		- / -	- / 7.782	- / 12.009	- / 7.000	- / -	- / 7.000
P-5	COMMON ORGANIZATIONAL LEVEL TESTER (COLT)		B		- / -	- / 0.010	- / 0.000	- / -	- / -	- / -
P-40a	Flight Line Generators				- / -	- / 0.000	- / 2.860	- / 0.000	- / 0.780	- / 0.780
P-40a	FLIGHTLINE COMPRESSORS				- / -	- / -	- / -	- / -	- / 1.869	- / 1.869
P-40a	FLIGHTLINE CRYOGENIC SYSTEMS				- / -	- / 0.000	- / 0.000	- / 0.000	- / 1.770	- / 1.770
P-40a	Flightline Heating, Ventilating, Air Conditioning				- / -	- / 9.704	- / 2.542	- / 0.000	- / 0.566	- / 0.566
P-40a	Hydraulic Servicing Equipment				- / -	- / 14.650	- / 13.375	- / 0.000	- / -	- / 0.000
P-40a	JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER (JSECST)				- / -	- / 4.995	- / 11.898	- / 5.800	- / -	- / 5.800
P-40a	*MISC AEROSPACE GROUND EQUIP (AGE)				- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.900	- / 0.900
P-40a	Nondestructive Inspection (NDI) Joint Oil Analysis Program (JOAP)				- / -	- / 0.000	- / 0.000	- / 25.976	- / -	- / 25.976
P-5	SMALL MUNITIONS TRAILERS RECAP (MHU-110/141)		A		- / -	- / 10.785	- / 10.910	- / -	- / -	- / -
P-40a	Versatile Diagnostic Automatic Test System (VDATS)				- / -	- / 0.030	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 26.027	- / 102.005	- / 113.770	- / 84.938	- / 7.025	- / 91.963

Exhibits Schedule					FY 2021	FY 2022	FY 2023	FY 2024	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				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Aircraft Maintenance Testers				- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MHU-196/204 SLEP (Service Life Extension)		B		- / 14.348	- / 25.082	- / 51.743	- / 51.812	- / 0.000	- / 190.990
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-5	COMMON ORGANIZATIONAL LEVEL TESTER (COLT)		B		- / -	- / -	- / -	- / -	- / -	- / -
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-40a	Versatile Diagnostic Automatic Test System (VDATS)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 112.805	- / 125.270	- / 126.356	- / 131.568	- / 0.000	- / 829.764

*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, BOMBER ARMAMENT TESTER (BAT) P-5, is a new start.

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 2021 through FY 2024 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 2020 Air Force		Date: February 2019
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 2021 Cost Delta: 98.457 million
- (b) FY 2022 Cost Delta: 100.188 million
- (c) FY 2023 Cost Delta: 74.613 million
- (d) FY 2024 Cost Delta: 79.756 million
- (e) FY Total Cost Delta: 638.774 million

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force															Date: February 2019				
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	-	-	4.720	-	-	5.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	4.720	-	-	5.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Hardware			-	-	-	-	-	4.720	-	-	5.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	4.720	-	-	5.000	-	-	0.000	-	-	-	-	-	0.000

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

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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:
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Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.848	0.000	3.400	-	3.400
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.848	0.000	3.400	-	3.400
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.848	0.000	3.400	-	3.400

(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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	-	-	-	-	-	2.400
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	2.400	-	-	-	-	-	2.400
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	-	-	-	-	-	-	2.400	-	-	-	-	-	2.400
Support - Support End Item Cost																		
ICS	-	-	-	-	-	0.000	-	-	0.000	-	-	0.500	-	-	-	-	-	0.500
PMA Other Government Costs	-	-	-	-	-	0.000	-	-	0.000	-	-	0.050	-	-	-	-	-	0.050
IV&V	-	-	-	-	-	0.848	-	-	0.000	-	-	0.450	-	-	-	-	-	0.450
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.848	-	-	0.000	-	-	1.000	-	-	-	-	-	1.000
Gross/Weapon System Cost	-	-	-	-	-	0.848	-	-	0.000	-	-	3.400	-	-	-	-	-	3.400

Remarks:

Procurement funds needed to fund remaining ARTS Test Program Set (TPS) and ICS contract. PMA funds are associated with fielding the ARTS due to delays in negotiations and implementation.

Secondary Distribution	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
AF Quantity	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
	Total Obligation Authority	0.848	0.000	3.400	-	3.400
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.848	0.000	3.400	-	3.400

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	85	8.200	0.096	20	1.920	-	-	-	-	-	0.150	-	-	0.150
<i>Secondary Distribution</i>																				
AF			-	-	-		85	8.200		20	1.920		-	-	-		0.150		-	0.150
MHU-83	A		-	-	-	0.127	68	8.636	0.127	14	1.778	-	-	-	-	-	0.850	-	-	0.850
<i>Secondary Distribution</i>																				
AF				-	-		68	8.636		14	1.778		-	-	-		0.850		-	0.850
Subtotal: Hardware			-	-	-	-	-	16.836	-	-	3.698	-	-	-	-	-	1.000	-	-	1.000
Support Cost																				
PMA Other Government Charges	A		-	-	-	-	-	-	-	-	0.026	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	0.026		-	-		-	-		-	-
PMA: Other Contractor Services	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost			-	-	-	-	-	-	-	-	0.026	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	16.836	-	-	3.724	-	-	-	-	-	1.000	-	-	1.000

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).

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous AEHE (ERI/ECAOS)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.140	-	-	0.140
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.140
Subtotal: Hardware			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.140
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.140

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).

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	-	-	-	-	-	6.326	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.000	-	-	2.000	-	-	-	-	2.000	
AFNG			-	-	-	-	-	-	-	-	-	-	-	2.788	-	-	-	-	2.788	
AFR			-	-	-	-	-	-	-	-	-	-	-	1.538	-	-	-	-	1.538	
Optical Devices	A		-	-	-	-	-	-	-	-	-	-	-	11.023	-	-	-	-	11.023	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	5.400	-	-	-	-	5.400	
AFNG			-	-	-	-	-	-	-	-	-	-	-	4.087	-	-	-	-	4.087	
AFR			-	-	-	-	-	-	-	-	-	-	-	1.536	-	-	-	-	1.536	
Misc Electronic Devices	A		-	-	-	-	-	-	-	-	-	-	-	4.489	-	-	-	-	4.489	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	1.494	-	-	-	-	1.494	
AFNG			-	-	-	-	-	-	-	-	-	-	-	2.241	-	-	-	-	2.241	
AFR			-	-	-	-	-	-	-	-	-	-	-	0.754	-	-	-	-	0.754	
Subtotal: Hardware			-	-	-	-	-	-	-	-	-	-	-	21.838	-	-	-	-	21.838	
Support																				
PMA: Other Contractor Services	A		-	-	-	-	-	-	-	-	-	-	-	0.300	-	-	-	-	0.300	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	0.300	-	-	-	-	0.300	
PMA: Other Government Charges	A		-	-	-	-	-	-	-	-	-	-	-	0.050	-	-	-	-	0.050	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	0.050	-	-	-	-	0.050	
Subtotal: Support			-	-	-	-	-	-	-	-	-	-	-	0.350	-	-	-	-	0.350	
Total			-	-	-	-	-	-	-	-	-	-	-	22.188	-	-	-	-	22.188	

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 2020 Air Force **Date:** February 2019

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 2020 Air Force		Date: February 2019
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:						
Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	26.027	5.769	6.979	9.230	0.000	9.230	14.348	25.082	51.743	51.812	0.000	190.990
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	26.027	5.769	6.979	9.230	0.000	9.230	14.348	25.082	51.743	51.812	0.000	190.990
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	26.027	5.769	6.979	9.230	0.000	9.230	14.348	25.082	51.743	51.812	0.000	190.990
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

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 timeline 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 2020 Air Force		Date: February 2019
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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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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.769	6.979	9.230	-	9.230	14.348	25.082	51.743	51.812
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	5.769	6.979	9.230	0.000	9.230	14.348	25.082	51.743	51.812

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2020 Air Force											Date: February 2019		
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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)	- / 1.079	- / 5.769	- / -	- / -	- / -	- / -	9 / 13.997	17 / 24.892	25 / 51.517	28 / 51.584	- / -	79 / 148.838	
<i>Subtotal: Recurring</i>	- / 1.079	- / 5.769	- / -	- / -	- / -	- / -	- / 13.997	- / 24.892	- / 51.517	- / 51.584	- / -	- / 148.838	
<i>Subtotal: MLT Mod Kit</i>	- / 1.079	- / 5.769	- / -	- / -	- / -	- / -	- / 13.997	- / 24.892	- / 51.517	- / 51.584	- / -	- / 148.838	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1.079	- / 5.769	- / -	- / -	- / -	- / -	- / 13.997	- / 24.892	- / 51.517	- / 51.584	- / -	- / 148.838	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / 17.573	- / -	- / 17.573	- / -	- / -	- / -	- / -	- / -	- / 17.573	
GROUP B: TOTAL NONRECURRING	- / 22.283	- / -	- / 16.152	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.435	
SUPPORT-EQUIP	- / 2.032	- / -	- / 10.692	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.724	
PMA - Other Gov't Costs	- / 10.633	- / -	- / 10.135	- / 10.107	- / -	- / 10.107	- / 10.109	- / 0.111	- / 0.113	- / 0.114	- / -	- / 11.322	
OTHER GOVT	- / -	- / -	- / -	- / 11.550	- / -	- / 11.550	- / 10.242	- / 0.079	- / 0.113	- / 0.114	- / -	- / 12.098	
<i>Subtotal: Support</i>	- / 24.948	- / -	- / 16.979	- / 19.230	- / -	- / 19.230	- / 0.351	- / 0.190	- / 0.226	- / 0.228	- / -	- / 42.152	
Installation													
<i>Modification Item 1 of 1:</i> MLT Mod Kit													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.000	17 / 0.000	25 / 0.000	28 / 0.000	- / -	79 / 0.000	
Total													
Total Cost (Procurement + Support + Installation)	26.027	5.769	6.979	9.230	0.000	9.230	14.348	25.082	51.743	51.812	0.000	190.990	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	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
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.000	17 / 0.000	25 / 0.000	28 / 0.000	- / -	79 / 0.000

Installation Schedule

PYS	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				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	14	79

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	-	-	0.662	-	-	10.044	-	-	0.744	-	-	0.000	-	-	0.744
<i>Secondary Distribution</i>																				
AF				-	-		-	0.662		-	10.044		-	0.744		-	0.000		-	0.744
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	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	0.100		-	-		-	-		-	-
Armament Test Sets	A		-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	0.100		-	-		-	-		-	-
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	0.100		-	-		-	-		-	-
Subtotal: Base Maintenance and Support Equipment			-	-	-	-	-	0.662	-	-	10.544	-	-	0.744	-	-	0.000	-	-	0.744
Total			-	-	-	-	0.662	-	-	10.544	-	-	0.744	-	-	0.000	-	-	0.744	

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

FY19 procurement dollars will be used in support 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.

PMA Other Government Costs applies to travel, 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, CMBRE (Common Munitions BIT Reprogrammable Equipment), CMBRE costs include cable purchases and power distribution units (PDU).

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

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
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	-	-	0.000	-	-	0.100	-	-	2.500	-	-	0.000	-	-	2.500
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.100	-	-	2.500	-	-	0.000	-	-	2.500
Subtotal: TMDE			-	-	-	-	-	0.000	-	-	0.100	-	-	2.500	-	-	0.000	-	-	2.500
Total			-	-	-	-	-	0.000	-	-	0.100	-	-	2.500	-	-	0.000	-	-	2.500

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.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	6.272	1	6.272	-	-	0.000	0.125	12	1.500	-	-	-	0.125	12	1.500
<i>Secondary Distribution</i>																				
AF			-	-	-		1	6.272		-	0.000		12	1.500		-	-		12	1.500
Subtotal: B52 MUSTANG			-	-	-	-	-	6.272	-	-	0.000	-	-	1.500	-	-	-	-	-	1.500
Total			-	-	-	-	-	6.272	-	-	0.000	-	-	1.500	-	-	-	-	-	1.500

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 FY20. This requirement is for the kits and implementation of the identified DMSMS solution.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	0.000	6.600	0.000	6.600
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	0.000	6.600	0.000	6.600
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	0.000	6.600	0.000	6.600

(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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	-	-	0.000	-	-	6.500
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.000	-	-	6.500	-	-	0.000	-	-	6.500
<i>Subtotal: Hardware - BOMBER ARMAMENT TESTER (BAT) Cost</i>	-	-	-	-	-	-	-	-	0.000	-	-	6.500	-	-	0.000	-	-	6.500
Support - BOMBER ARMAMENT TESTER (BAT) Cost																		
PMA OPher govt cost	-	-	-	-	-	-	-	-	0.000	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Support - BOMBER ARMAMENT TESTER (BAT) Cost</i>	-	-	-	-	-	-	-	-	0.000	-	-	0.100	-	-	-	-	-	0.100
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	0.000	-	-	6.600	-	-	0.000	-	-	6.600

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	-	0.000	6.600	0.000	6.600
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2020 Air Force			Date: February 2019			
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Secondary Distribution	Total Obligation Authority	-	0.000	6.600	0.000	6.600

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force															Date: February 2019				
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	0.328	10	3.278	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF							10	3.278												
FAST CHARACTERIZATION TOOL (FACT) 4920015654320RN (SEV)	A		-	-	-	0.342	9	3.078	0.342	2	0.684	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF							9	3.078		2	0.684									
FLIGHT LINE GENERATORS (SEV)	A		-	-	-	0.060	55	3.300	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF							55	3.300			0.000									
B-1 MAINTENANCE STANDS 1730015544187RN (SEV)	A		-	-	-	0.013	149	1.876	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF							149	1.876												
B-4 MAINTENANCE STANDS 1730015554366RN (SEV)	A		-	-	-	0.011	99	1.056	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF							99	1.056												
A/M24T-16 LOAD BANK (SEV)	A		-	-	-	-	-	-	0.250	2	0.500	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF										2	0.500									
MISCELLANEOUS AGE	A		-	-	-	-	-	0.106	-	-	27.919	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF								0.106			27.919									
PMA CONTRACTOR SERVICES	A		-	-	-	-	-	0.100	-	-	0.100	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force															Date: February 2019				
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
AF				-	-		-	0.100		-	0.100		-	-		-	-		-	-
PMA OTHER GOVERNMENT COSTS (SEV)	A		-	-	-		-	0.000	-	-	0.100	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	0.100		-	-		-	-		-	-
ADVANCED CONTROL TESTER (ACT) (SEV)	A		-	-	-	0.363	13	4.719	0.370	10	3.698	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		13	4.719		10	3.698		-	-		-	-		-	-
Subtotal: SUPPORT EQUIPMENT AND VEHICLES (SEV)			-	-	-	-	-	17.513	-	-	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		-	-	-	0.022	1	0.022	0.020	8	0.160	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.022		8	0.160		-	-		-	-		-	-
FSC 3940 BLOCK, TACKLE, RIGGING, SLING (OC)	A		-	-	-	0.010	2	0.020	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		2	0.020		-	-		-	-		-	-		-	-
FSC 3990 MISCELLANEOUS MATERIALS HANDLING EQUIPMENT (OC)	A		-	-	0.000		-	-	-	-	-	-	-	-	-	-	-	-	-	-
FSC 4920 AIRCRAFT MAINT SHOP SPECIALIZED EQP (OC)	A		-	-	-	0.003	1	0.003	0.020	5	0.100	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.003		5	0.100		-	-		-	-		-	-
FSC 4935 GUIDED MISSILE MAINTENANCE,	A		-	-	-		-	-	0.007	4	0.028	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force																	Date: February 2019			
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
REP, AND CHECKOUT SPECIALIZED EQUIPMENT (OC)																				
<i>Secondary Distribution</i>																				
AF				-	-		-	-		4	0.028		-	-		-	-		-	-
FSC 5120 HAND TOOLS, NON-EDGED, NON-POWERED (OC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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		-	-	-	0.004	1	0.004	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.004		-	-		-	-		-	-		-	-
FSC 6625 ELECTRICAL AND ELECTRONIC PROPERTIES MEASURING, TEST INSTRUMENTS (OC)	A		-	-	-	0.250	1	0.250	0.002	1	0.002	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.250		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)			-	-	-	-	-	0.299	-	-	0.307	-	-	-	-	-	-	-	-	-
OTHER																				
F-16 SQUADRON	A		-	-	-	-	-	1.130	-	-	0.521	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	1.130		-	0.521		-	-		-	-		-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force														Date: February 2019					
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
Subtotal: OTHER			-	-	-	-	-	1.130	-	-	0.521	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	18.942	-	-	33.829	-	-	-	-	-	-	-	-	

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

Remarks:
 FEDERAL STOCK CLASS (FSC)
 Support Equipment and Vehicles (SE&V)
 'Fast Characterization Tool (FACT) 4920015711970RN' falls within the AIRCRAFT MAINTENANCE TESTERS Program
 'B-1 Maintenance Stands 1730015544187RN' and 'B-4 Maintenance Stands 1730015554366RN' both fall within the AIRCRAFT MAINTENANCE STANDS Program.
 'A/M24T-16 Load Bank' falls within the SECONDARY POWER Program.
 'Advanced Control Tester (ACT)(SEV)' falls within the AIRCRAFT ENGINE TEST EQUIPMENT Program.
 'Miscellaneous AGE' falls within the MISC AEROSPACE GROUND EQUIP (AGE) Program
 PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies, studies and Advisory and Administrative Services (A&AS).
 FY20 SE&V procurement dollars support the European Contingency Air Operations System (ECAOS)/Deployable Air Base System (DABS) - Facilities, Equipment, and Vehicles (FEV).
 Capabilities procure a multitude of related items with different unit costs.
 Funds for FY20 were moved to the new P-40a's for system being acquired.
 Exact quantities may vary based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	7.782	12.009	7.000	-	7.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	7.782	12.009	7.000	-	7.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	7.782	12.009	7.000	-	7.000

(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)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	328	4.920	0.015	265	3.975	0.015	265	3.975	-	-	-	0.015	265	3.975
Cable Sets and Case	-	-	-	0.070	32	2.240	0.049	158	7.783	0.050	60	3.000	-	-	-	0.050	60	3.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	7.160	-	-	11.758	-	-	6.975	-	-	-	-	-	6.975
<i>Subtotal: Hardware - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</i>	-	-	-	-	-	7.160	-	-	11.758	-	-	6.975	-	-	-	-	-	6.975
Software - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost																		
Recurring Cost																		
AAG Development (Re-host)	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</i>	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
Logistics - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost																		
Non Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
Drawings	-	-	-	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Logistics - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</i>	-	-	-	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
Support - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost																		
PMA Other Government Services	-	-	-	-	-	0.372	-	-	0.251	0.025	1	0.025	-	-	-	0.025	1	0.025
<i>Subtotal: Support - COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE) Cost</i>	-	-	-	-	-	0.372	-	-	0.251	-	-	0.025	-	-	-	-	-	0.025
Gross/Weapon System Cost	-	-	-	-	-	7.782	-	-	12.009	-	-	7.000	-	-	-	-	-	7.000

Remarks:
FY19 funds will be used for production activities for the cyber secure Common Aircraft Portable Reprogramming Equipment Memory Loader Verifier. (CAPRE-MLV)

FY19 CAPRE funds will be used to purchase full CAPRE memory loader verifier (MLV) and accessory equipment for the CAPRE MLV. FY19 funding will also be used produce cables and cables sets and procure replacement laptops. Cable Sets include an average of 35 to 52 cables and cases for cables.

FY19 PMA dollars in the amount of (\$25,000.00) will be used for the necessary travel and A&AS support associated with for CAPRE production activities.

Secondary Distribution		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	7.782	12.009	7.000	-	7.000
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	7.782	12.009	7.000	-	7.000

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2020 Air Force													Date: February 2019					
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 ORGANIZATIONAL LEVEL TESTER (COLT)					
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		0.010		0.000		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		0.010		0.000		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		0.010		0.000		-		-		-				
<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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 ORGANIZATIONAL LEVEL TESTER (COLT) Cost																		
Non Recurring Cost																		
Colt upgraded Power (Pure Mods version)	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Colt Standard Version	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - COMMON ORGANIZATIONAL LEVEL TESTER (COLT) Cost</i>	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Support - COMMON ORGANIZATIONAL LEVEL TESTER (COLT) Cost																		
PMA Other Government Costs	-	-	-	-	-	0.010	-	-	0.000	-	-	-	-	-	-	-	-	-
PMA Contractor Services	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - COMMON ORGANIZATIONAL LEVEL TESTER (COLT) Cost</i>	-	-	-	-	-	0.010	-	-	0.000	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	0.010	-	-	0.000	-	-	-	-	-	-	-	-	-
Remarks: COLT is a Nuclear certified tester for B-2 and F-22 aircraft.																		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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 ORGANIZATIONAL LEVEL TESTER (COLT)

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

The current COLT tester has supportability issues, (obsolescence and thermal), and poor reliability rates as there is an average 42% annual failure rate which drive high sustainment costs. The gov't assumes a lot of risk with obsolescent parts, living off repairs that could abruptly end would directly impact both the F-22 and B-2 weapon systems. Operating system update feeds into the COLT ATO that mandates we meet cyber security measures; dated Operating System induces risk that is unacceptable. If this effort is not funded there will be an extremely high risk of having weapon systems unable to be fitted with weapon thereby drastically increasing non-mission capable rates.

FY18 funds used to purchase modification kits and installation of kits for the entire COLT fleet. Funding also supports upgrades/changes to the system that are driven by cyber concerns. PMA cost cover travel for the COLT program and contractor support.

FY18 PMA dollars in the total amount of (\$10,000) used for travel (Other Government Costs) and Contractor Services to augment ATS Division manpower to perform logistics functions as fielding of assets occur.

This program was originally included on the Items Less than \$5M exhibit in the FY17 President's Budget.

Secondary Distribution		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	0.010	0.000	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	0.010	0.000	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

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
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	-	-	0.000	-	-	2.860	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	2.860	-	-	0.000	-	-	-	-	-	0.000
Large & Small Flightline Generator (EDI/ECAOS)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.780	-	-	0.780
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.780	-	-	0.780
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	2.860	-	-	0.000	-	-	0.780	-	-	0.780
Total			-	-	-	-	-	0.000	-	-	2.860	-	-	0.000	-	-	0.780	-	-	0.780

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 2020 Air Force **Date:** February 2019

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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	-	-	1.869
<i>Secondary Distribution</i>																						
AF			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.869	-	-	1.869
Subtotal: End Item			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.869	-	-	1.869
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.869	-	-	1.869

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 2020 Air Force **Date:** February 2019

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
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	-	-	0.000	-	-	0.000	-	-	1.770	-	-	1.770
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.770	-	-	1.770
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.770	-	-	1.770
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.770	-	-	1.770

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 2020 Air Force															Date: February 2019				
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	0.243	40	9.704	0.254	10	2.542	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-		40	9.704		10	2.542		-	0.000		-	-		-	0.000
AFNG			-	-	-		-	-		-	-		-	0.000		-	-		-	0.000
AFR			-	-	-		-	-		-	-		-	0.000		-	-		-	0.000
Large & Small Flightline HVAC (EDI/ECAOS)	A		-	-	-		-	-		-	-		-	0.000		-	-		0.566	0.566
<i>Secondary Distribution</i>																				
AF			-	-	-		-	-		-	-		-	0.000		-	-		0.566	0.566
Subtotal: End Item Costs			-	-	-		-	9.704		-	2.542		-	0.000		-	-		0.566	0.566
Support End Item Costs																				
PMA: Other Government Charges	A		-	-	0.000		-	-		-	-		-	-		-	-		-	-
PMA: Other Contractor Services	A		-	-	0.000		-	-		-	-		-	-		-	-		-	-
Subtotal: Support End Item Costs			-	-	0.000		-	-		-	-		-	-		-	-		-	-
Total			-	-	-		-	9.704		-	2.542		-	0.000		-	-		0.566	0.566

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 2020 Air Force **Date:** February 2019

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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	47	9.165	0.195	45	8.775	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		47	9.165		45	8.775		-	0.000		-	-	-	-	0.000
UNIVERSAL TRIPLE HYDRAULIC TEST STAND (3 SYS) (ELECTRIC)	A		-	-	-	0.117	5	0.585	0.114	10	1.140	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		5	0.585		10	1.140		-	-		-	-	-	-	-
UNIVERSAL HYDRAULIC TEST STAND (2 SYS) (DIESEL)	A		-	-	-	0.117	21	2.450	0.116	20	2.320	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		11	1.284		20	2.320		-	-		-	-	-	-	-
AFNG				-	-		5	0.583		-	-		-	-		-	-	-	-	-
AFR				-	-		5	0.583		-	0.000		-	0.000		-	-	-	-	0.000
UNIVERSAL HYDRAULIC TEST STAND (2 SYS) (ELECTRIC)	A		-	-	-	0.117	21	2.450	0.114	10	1.140	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		15	1.750		10	1.140		-	0.000		-	-	-	-	0.000
AFNG				-	-		4	0.467		-	0.000		-	-		-	-	-	-	-
AFR				-	-		2	0.233		-	0.000		-	0.000		-	-	-	-	0.000
Subtotal: Hardware			-	-	-	-	-	14.650	-	-	13.375	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	14.650	-	-	13.375	-	-	0.000	-	-	-	-	-	0.000

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.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force															Date: February 2019				
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	-	-	4.995	11.898	1	11.898	0.464	11	5.100	-	-	-	0.464	11	5.100
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	4.995		-	11.170		11	5.100		-	-		11	5.100
AFNG			-	-	-	-	-	-		1	0.728		-	0.000		-	-		-	0.000
AFR			-	-	-	-	-	-		-	0.000		-	0.000		-	-		-	0.000
PMA Other Government Costs	A		-	-	-	-	-	-	-	-	0.000	0.350	1	0.350	-	-	-	0.350	1	0.350
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	0.000		1	0.350		-	-		1	0.350
PMA Other Government Support	A		-	-	-	-	-	-	-	-	-	0.050	1	0.050	-	-	-	0.050	1	0.050
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		1	0.050		-	-		1	0.050
Kit Installations	A		-	-	-	-	-	-	-	-	-	0.004	75	0.300	-	-	-	0.004	75	0.300
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		75	0.300		-	-		75	0.300
Subtotal: Joint Service Electronic Combat Systems Tester (JSECST)			-	-	-	-	-	4.995	-	-	11.898	-	-	5.800	-	-	-	-	-	5.800
Total			-	-	-	-	-	4.995	-	-	11.898	-	-	5.800	-	-	-	-	-	5.800

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

Remarks:

FY20-24 unit cost is assumed and will change once new contract is in place. FY20-24 PMA dollars in the amount of \$50,000.00 will be used for the necessary travel associated with fielding the Joint Service Electronic Combat System Tester (JSECST)and for kits install.

FY20 unit cost is assumed and will change once new contract is in place. Existing contract (FA8532-14-D-0004)expired 30 September 2017. Expect follow-on contract NLT March 2019.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

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)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.900	-	-	0.900
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.900	-	-	0.900
Subtotal: End Items			-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.900	-	-	0.900
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.900	-	-	0.900

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 2020 Air Force															Date: February 2019				
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	-	-	-	-	-	16.800
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	15.300	-	-	-	-	-	15.300
AFNG			-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
AFR			-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
X-Ray Equipment	A		-	-	-	-	-	-	-	-	-	-	-	8.302	-	-	-	-	-	8.302
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	3.957	-	-	-	-	-	3.957
AFNG			-	-	-	-	-	-	-	-	-	-	-	3.065	-	-	-	-	-	3.065
AFR			-	-	-	-	-	-	-	-	-	-	-	1.280	-	-	-	-	-	1.280
Misc NDI Equipment	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.524	-	-	-	-	-	0.524
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.000	-	-	0.393	-	-	-	-	-	0.393
AFNG			-	-	-	-	-	0.000	-	-	0.000	-	-	0.120	-	-	-	-	-	0.120
AFR			-	-	-	-	-	0.000	-	-	0.000	-	-	0.011	-	-	-	-	-	0.011
Subtotal: Hardware			-	-	-	-	-	0.000	-	-	0.000	-	-	25.626	-	-	-	-	-	25.626
Support																				
PMA: Other Contractor Services	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.300	-	-	-	-	-	0.300
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.000	-	-	0.300	-	-	-	-	-	0.300
PMA: Other Government Charges	A		-	-	-	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	0.050
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	0.050
Subtotal: Support			-	-	-	-	-	0.000	-	-	0.000	-	-	0.350	-	-	-	-	-	0.350
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	25.976	-	-	-	-	-	25.976

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 2020 Air Force		Date: February 2019
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 2020 Air Force		Date: February 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	10.785	10.910	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	10.785	10.910	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	10.785	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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 Trailers	-	-	-	0.048	2	0.096	-	-	-	-	-	-	-	-	-	-	-	-
MHU-141 Trailers	-	-	-	0.048	2	0.096	-	-	-	-	-	-	-	-	-	-	-	-
MHU-110/141 Trailers	-	-	-	-	-	-	0.096	4	0.384	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.192	-	-	0.384	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - SMALL MUNITIONS TRAILERS RECAP (MHU-110/141) Cost</i>	-	-	-	-	-	0.192	-	-	0.384	-	-	-	-	-	-	-	-	-
Support - SMALL MUNITIONS TRAILERS RECAP (MHU-110/141) Cost																		
PMA Other Government Costs MHU-110	-	-	-	-	-	0.040	-	-	-	-	-	-	-	-	-	-	-	-
First Article Testing MHU-110	-	-	-	-	-	2.500	-	-	-	-	-	-	-	-	-	-	-	-
PMA Other Government Costs MHU-141	-	-	-	-	-	0.040	-	-	-	-	-	-	-	-	-	-	-	-
First Article Testing MHU-141	-	-	-	-	-	3.067	-	-	-	-	-	-	-	-	-	-	-	-
Data MHU-110	-	-	-	-	-	2.756	-	-	-	-	-	-	-	-	-	-	-	-
Data MHU-141	-	-	-	-	-	2.190	-	-	-	-	-	-	-	-	-	-	-	-
First Article Testing MHU-110/141	-	-	-	-	-	-	-	-	5.477	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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:

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
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>	-	-	-	-	-	10.593	-	-	10.526	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	10.785	-	-	10.910	-	-	-	-	-	-	-	-	-

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

Secondary Distribution		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	10.785	10.910	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	10.785	10.910	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force													Date: February 2019					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 1						P-1 Line Item Number / Title: 000071 / Aircraft Replacement Support Equip						Aggregated Items Title: Versatile Diagnostic Automatic Test System (VDATS)						

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
VDATS																				
HARDWARE	A		-	-	-	-	-	0.030	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.030	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: VDATS			-	-	-	-	-	0.030	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Total			-	-	-	-	-	0.030	-	-	0.000	-	-	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 Versatile Diagnostic Automatic Test System is the DoD approved AF Family-of-Tester.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.447	1.763	1.403	-	1.403	1.686	1.686	15.795	38.887	-	61.667
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.447	1.763	1.403	-	1.403	1.686	1.686	15.795	38.887	-	61.667
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.447	1.763	1.403	-	1.403	1.686	1.686	15.795	38.887	-	61.667

(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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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 2020 Air Force **Date:** February 2019

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

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	38.509	35.861	42.234	-	42.234	46.798	47.737	48.605	49.479	-	309.223
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	38.509	35.861	42.234	-	42.234	46.798	47.737	48.605	49.479	-	309.223
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	38.509	35.861	42.234	-	42.234	46.798	47.737	48.605	49.479	-	309.223

(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 74, covers ICS for legacy components as well as WSSC support. ICS for new B-2 modifications is covered in Line Item 73.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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				- / -	- / 38.509	- / 35.861	- / 42.234	- / -	- / 42.234
P-40	Total Gross/Weapon System Cost				- / -	- / 38.509	- / 35.861	- / 42.234	- / -	- / 42.234

*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 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 2	P-1 Line Item Number / Title: B002B0 / B-2B	Aggregated Items Title: B-2B
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	-	-	26.816	-	-	29.378	-	-	29.478	-	-	-	-	-	29.478
WSSC; Program Code bem000	A		-	-	-	-	-	11.693	-	-	6.483	-	-	12.756	-	-	-	-	-	12.756
Subtotal: Uncategorized			-	-	-	-	-	38.509	-	-	35.861	-	-	42.234	-	-	-	-	-	42.234
Total			-	-	-	-	-	38.509	-	-	35.861	-	-	42.234	-	-	-	-	-	42.234

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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.199	12.819	4.641	-	4.641	5.648	5.762	5.867	0.104	-	35.040
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.199	12.819	4.641	-	4.641	5.648	5.762	5.867	0.104	-	35.040
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.199	12.819	4.641	-	4.641	5.648	5.762	5.867	0.104	-	35.040

(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-52 Combat Network Communication Technology (CONNECT) acquisition project supports nuclear and conventional operations by upgrading the B-52 fleet with data link and voice communications capabilities along with improved threat and situational awareness to support participation in network centric operations. The CONNECT upgrade installs new Multi-Functional Color Displays (MFCDs) and a digital interphone system, which will survive and function through the nuclear environment to enhance crew interaction and situational awareness. To enable net centric operations, the CONNECT upgrade installs on-board client/server architecture supporting distributed processing with independent control functions; UHF Beyond Line-Of-Sight (BLOS) Joint Range Extension (JRE) capability via ARC-210 Warrior radio to exchange J-Series messaging within theater; Intelligence Broadcast Receiver (IBR); limited Internet Protocol (IP)-based UHF BLOS link supporting voice, email and file transfers; and Improved Data Modem (IDM)-based digital Variable Message Format (VMF) data link to significantly enhance close air support (CAS) missions. This integrated suite, when produced and installed, will provide the B-52 fleet with a machine-to-machine capability supporting aircraft re-tasking and re-targeting of Conventional Air Launched Cruise Missile (CALCM) and J-series weapons across the range of military operations the B-52 is assigned.

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.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0101113F.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

Justification:

Post Production Support funds Interim Contract Support (ICS) are required until the depot is established for CONNECT.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	12.028	10.114	124.805	-	124.805	0.000	0.000	0.000	0.000	-	146.947
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	12.028	10.114	124.805	-	124.805	0.000	0.000	0.000	0.000	-	146.947
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	12.028	10.114	124.805	-	124.805	0.000	0.000	0.000	0.000	-	146.947

(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 initial 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 38 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 5/6 years. Funds remaining in the FYDP will be used to complete PPPI projects initiated with APAF.

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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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

Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	C-17A				- / -	- / 12.028	- / 10.114	- / 124.805	- / -	- / 124.805
P-40	Total Gross/Weapon System Cost				- / -	- / 12.028	- / 10.114	- / 124.805	- / -	- / 124.805

*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:

- 1.) Engine Depot Stock & Preservation Kit buy - This is required due to the Secretary of the Air Force's (Sec AF) directive to breakout F117 engine overhaul outside of the GISP CLS umbrella. This requires the purchase of initial spares in order for the depots to operate effectively.

- 2.) Purchase of Peculiar and Common Support Equipment for the C-17 (PSE and CSE) - If not funded, C-17 operational readiness and aircraft availability will be impacted negatively. In addition, the safety of maintenance and shop personnel working will be put in harm's way.

- 3.) Post Production Product Improvement Program (PPPI) - The FY19 budget supports PPPI for 21 MIP projects to be installed on 35 aircraft. MIP projects significantly increase aircraft Reliability, Maintainability and Availability (RM&A). Project completion also contributes to the common configuration and reducing the lifecycle costs of the C-17 fleet. MIP projects include, but not limited to:
 - a.) Redesign Wing Fillet Panel
 - b.) 1553 Data Bus Pre-Electrical Power Improvement Retrofit
 - c.) Pneumatic Manifold Slip Joint Leakage
 - d.) Lavatory Drain Leak
 - e.) Combined Altitude Radar Altimeter
 - f.) AC Pack Refrigeration Unit Reliability
 - g.) Spoiler Bushings and Bearings

- 4.) Simulator training improves aircrew training quality by increasing standardization and the frequency of training at a much lower cost than can be achieved in the aircraft. At a minimum, units require continuation/refresher training quarterly. A co-located simulator allows training to be conducted locally, which reduces fuel and TDY costs by an estimated \$976K per year. The average monthly hours used per training system is 275 hours.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force															Date: February 2019				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 2							P-1 Line Item Number / Title: C01700 / C-17A								Aggregated Items Title: C-17A				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
Weapon System Trainer (WST)	A		-	-	-	-	-	-	-	-	-	-	-	48.422	-	-	-	-	-	48.422
Engine Depot Stock and Preservation Kit Buy	A		-	-	-	-	-	-	-	6.330	-	-	-	68.871	-	-	-	-	-	68.871
Cargo Load Trainer	A		-	-	-	-	-	-	-	1.984	-	-	-	-	-	-	-	-	-	-
Peculiar Ground Support Equipment (PSE)	A		-	-	-	-	-	11.528	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
Common Support Equipment (CSE)	A		-	-	-	-	-	0.400	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
Post Production Product Improvement	A		-	-	-	-	-	0.100	-	-	1.600	-	-	7.312	-	-	-	-	-	7.312
Subtotal: Uncategorized			-	-	-	-	-	12.028	-	-	10.114	-	-	124.805	-	-	-	-	-	124.805
Total			-	-	-	-	-	12.028	-	-	10.114	-	-	124.805	-	-	-	-	-	124.805

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 2020 Air Force **Date:** February 2019

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:
 C0V220 / CV-22 Post Production Support

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0401318F

Line Item MDAP/MAIS Code: 212

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	4.500	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	4.500
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	4.500	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	4.500
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	4.500	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	4.500

(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 CV-22 is the US Air Force Special Operations Forces (SOF) variant of the joint multi-mission V-22 tilt-rotor aircraft. The aircraft provides long-range infiltration, exfiltration, and re-supply of SOF in politically sensitive and hostile/denied areas. The Navy is the lead service for the joint V-22 program and has overall responsibility for managing all V-22 variants, including the Air Force CV-22 variant.

CV-22 post production support funding enables the seamless transition from the production phase of the program to the operations and support (O&S) phase. Post Production support funding is required to procure support equipment and integrated logistics support (ILS) requirements affiliated with sustainment of CV-22 modifications to improve operational effectiveness, readiness, and aircraft availability of the worldwide CV-22 fleet.

Funding for this exhibit contained in PE 0401318F.

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

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

Justification:

No Budget Year FY 2020 funding requested.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity:
 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support

P-1 Line Item Number / Title:
 DARP01 / RC-135

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305207F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	29.700	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	29.700
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	29.700	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	29.700
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	29.700	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	29.700

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

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

Description:

In FY18 \$29.7M was allocated for the design and installation of one (1) COBRA BALL/COMBAT SENT/Airborne System Engineer training emulator. Funding for this exhibit is contained in PE 0305207F.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

Justification:

This computer-based training system will be used to train members across multiple crew positions as it can be modified to meet the needs of the position being trained.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity:
 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support

P-1 Line Item Number / Title:
 F01500 / F-15

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	20.000	2.545	2.589	-	2.589	2.636	2.688	2.737	0.000	-	33.195
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	20.000	2.545	2.589	-	2.589	2.636	2.688	2.737	0.000	-	33.195
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	20.000	2.545	2.589	-	2.589	2.636	2.688	2.737	0.000	-	33.195

(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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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

Secondary Distribution		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024
AF	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.000	2.545	2.589	0.000	2.589	-	-	-	-
AFNG	Quantity	7	0	0	0	0	-	-	-	-
	Total Obligation Authority	20.000	0.000	0.000	0.000	0.000	-	-	-	-
AFR	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	-	-	-	-
Total:	Quantity	7	0	0	0	0	-	-	-	-
Secondary Distribution	Total Obligation Authority	20.000	2.545	2.589	0.000	2.589	-	-	-	-

Justification:

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

Tooling is loaned/leased to support manufacturing of spares, as well as to support the execution of modification programs, life extension activities, and sustainment efforts.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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:
F0150P / F-15

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207130F, 0207134F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	2.524	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	2.524
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	2.524	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	2.524
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	2.524	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	2.524

(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.

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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: February 2019
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: F0150P / F-15
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207130F, 0207134F
Line Item MDAP/MAIS Code: N/A		
Justification: Funding provides continued support of the Electronic Systems Test Set (ESTS). Grounding of aircraft would result without this repair support. Supports procurement of additional F-15 E Integrated Aircrew Trainers (IATs) to better implement formal syllabus training, and meets HAF intent by preparing for 20% increase in FTU production IAW ACC/A3T memo dated 29 Jun 2016. Provides continued interim contractor support of post production tooling storage at Granite City, IL. 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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	8.151	4.918	15.348	-	15.348	25.397	19.707	20.067	20.429	-	114.017
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	8.151	4.918	15.348	-	15.348	25.397	19.707	20.067	20.429	-	114.017
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	8.151	4.918	15.348	-	15.348	25.397	19.707	20.067	20.429	-	114.017

(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, PMA costs and production line shutdown activities for F-16 aircraft.

Funding for this exhibit is budgeted in PE 0207133F

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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				- / -	- / 8.151	- / 4.918	- / 15.348	- / -	- / 15.348
P-40	Total Gross/Weapon System Cost				- / -	- / 8.151	- / 4.918	- / 15.348	- / -	- / 15.348

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

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. Funding for these contracts is essential since the F-16 Program Offices require specialized engineering services to ensure continued fleet support capability during, and beyond, the Production Line Shutdown (PLS). 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 teardown, shipping and storage of unique aircraft manufacturing equipment.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
AESA	A		-	-	-	-	-	-	-	-	-	-	-	5.067	-	-	-	-	-	5.067
Mode 5	A		-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
Avionics PGSE	A		-	-	-	-	-	7.051	-	-	3.309	-	-	5.735	-	-	-	-	-	5.735
AGCAS	A		-	-	-	-	-	-	-	-	1.009	-	-	-	-	-	-	-	-	-
Digital Radar Warning Receiver	A		-	-	-	-	-	-	-	-	-	-	-	3.946	-	-	-	-	-	3.946
Production Line Shutdown	A		-	-	-	-	-	0.600	-	-	0.600	-	-	0.600	-	-	-	-	-	0.600
Subtotal: Uncategorized			-	-	-	-	-	8.151	-	-	4.918	-	-	15.348	-	-	-	-	-	15.348
Total			-	-	-	-	-	8.151	-	-	4.918	-	-	15.348	-	-	-	-	-	15.348

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 2020 Air Force **Date:** February 2019

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	119.566	64.489	0.000	-	0.000	0.000	0.000	0.000	0.000	-	184.055
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	119.566	64.489	0.000	-	0.000	0.000	0.000	0.000	0.000	-	184.055
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	119.566	64.489	0.000	-	0.000	0.000	0.000	0.000	0.000	-	184.055

(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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 2: Post Production Support

P-1 Line Item Number / Title:
OTHACF / Other Aircraft

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207701F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	81.600	9.928	0.000	-	0.000	0.000	0.000	0.000	0.000	-	91.528
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	81.600	9.928	0.000	-	0.000	0.000	0.000	0.000	0.000	-	91.528
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	81.600	9.928	0.000	-	0.000	0.000	0.000	0.000	0.000	-	91.528

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

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

Description:

In FY 2019, PE 0207701F provided funds to procure eight man-in-the-loop threat simulators for the Nellis Virtual Test and Training Center (VTTC). The VTTC requires four high and four lower fidelity man-in-the-loop simulators to meet Nellis' Virtual Warfare Center tactics development and training requirements. The trainers will be Distributed Mission Operations capable and platform agnostic, to allow integration with other Mission Design Series. The simulator fidelity is designed to provide adversary threats for testing of 4th or 5th generation platforms. While not designed for this purpose, these trainers could provide virtual adversary-air support in operational training.

\$4.600M in FY 2019 funds will be realigned from BA 07 to BA 05 to comply with the intent of a mark the FY 2019 Congressional Appropriations bill.

Funding for this exhibit contained in PE 0207701F.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

Secondary Distribution	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024
AF									
Quantity	0	8	0	0	0	-	-	-	-
Total Obligation Authority	0.000	9.928	0.000	0.000	0.000	-	-	-	-
AFNG									
Quantity	18	0	0	0	0	-	-	-	-
Total Obligation Authority	81.600	0.000	0.000	0.000	0.000	-	-	-	-
AFR									
Quantity	0	0	0	0	0	-	-	-	-
Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	-	-	-	-
Total:									
Quantity	18	8	0	0	0	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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

Secondary Distribution		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024
Secondary Distribution	Total Obligation Authority	81.600	9.928	0.000	0.000	0.000	-	-	-	-

Justification:
 No Budget Year FY20 funding requested.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305220F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 252

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
<i>Procurement Quantity (Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Cost (\$ in Millions)</i>	59.900	84.325	40.641	47.246	-	47.246	153.940	105.070	42.900	15.982	16.300	566.304
<i>Less PY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Net Procurement (P-1) (\$ in Millions)</i>	59.900	84.325	40.641	47.246	-	47.246	153.940	105.070	42.900	15.982	16.300	566.304
<i>Plus CY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	59.900	84.325	40.641	47.246	-	47.246	153.940	105.070	42.900	15.982	16.300	566.304

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

<i>Initial Spares (\$ in Millions)</i>	-	25.913	-	-	-	-	3.300	3.504	-	-	-	32.717
<i>Flyaway Unit Cost (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Unit Cost (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

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 in support of Better Buying Power initiatives.

Funds will support the procurement and installation of MS-177A 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 will 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 scheduled to start mid 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.

Ground Segment Modernization Program (GSMP) supports production and fielding of a modernized Ground Segment in support of the planned 20 year operational 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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Sensors	P-5a, P-21	B		- / 59.900	- / 48.425	- / 35.641	- / 45.446	- / -	- / 45.446
P-5	GSMP		B		- / -	- / -	- / -	- / 1.600	- / -	- / 1.600
P-5	RQ-4 Post Production Charges		B		- / -	- / 35.900	- / 5.000	- / 0.200	- / -	- / 0.200
P-40	Total Gross/Weapon System Cost				- / 59.900	- / 84.325	- / 40.641	- / 47.246	- / -	- / 47.246

*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, GSMP P-5, is a new start.

FY20 RQ-4 sensor funding will support the activities necessary to complete the procurement of MS-177A sensors and auxiliary equipment B-kits. Funds to be used for ICS, focus flight tests, support equipment, training, data, installation drawings, and other related activities. The B-kits consist of the SIMs, airborne file servers, tooling, and other related equipment. Funds may be used for sensor initiatives.

FY20 RQ-4 GSMP funding will be utilized for trainers, site surveys, and any other related costs necessary to begin GSMP production.

FY20 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 2020 Air Force						Date: February 2019			
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:					
Resource Summary				Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				59.900	48.425	35.641	45.446	-	45.446
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				59.900	48.425	35.641	45.446	-	45.446
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				59.900	48.425	35.641	45.446	-	45.446
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	25.913	-	-	-	-
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	4	36.200	8.405	2	16.810	-	-	-	-	-	-	-	-	-	-	-	-
Auxiliary Equipment B-Kits ^(†)	-	-	-	-	-	-	3.900	6	23.400	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	36.200	-	-	16.810	-	-	23.400	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Sensors Cost</i>	-	-	36.200	-	-	16.810	-	-	23.400	-	-	-	-	-	-	-	-	-
Support - Sensors Cost																		
Sensor Calibration/ Installation	-	-	-	-	-	-	-	-	-	-	-	18.000	-	-	-	-	-	18.000
Support Equipment & Other System Equipment	-	-	5.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Change Orders	-	-	-	-	-	-	-	-	-	-	-	4.586	-	-	-	-	-	4.586
Interim Contractor Support	-	-	-	-	-	28.100	-	-	11.441	-	-	16.000	-	-	-	-	-	16.000
Other Government Costs	-	-	-	-	-	-	-	-	-	-	-	1.500	-	-	-	-	-	1.500
Other Contractor Costs	-	-	12.500	-	-	3.515	-	-	0.800	-	-	5.360	-	-	-	-	-	5.360
Production Test Support	-	-	5.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Sensors Cost</i>	-	-	23.700	-	-	31.615	-	-	12.241	-	-	45.446	-	-	-	-	-	45.446
Gross/Weapon System Cost	-	-	59.900	-	-	48.425	-	-	35.641	-	-	45.446	-	-	-	-	-	45.446

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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:
<p>Remarks: FY20 RQ-4 sensor funding will support the installation of MS-177A sensors, auxiliary equipment B-kits, fairings and windows, as well as provide funding for support equipment, sensor calibration and focus flights, training, data, ICS, and other activities necessary to complete the fielding of the sensors. The B-kits consist of the SIMs, airborne file servers, tooling, and other related equipment.</p> <p>Requirement source: AF-1067</p> <p>-Projected MS-177A schedule- Projected DTE completion: Q2 2021 Projected OTE completion: Q1 2022</p> <p>The MS-177 7-Band sensor system developmental testing effort is complete and required 21 total flights to proof test the integration. The 7-Band integration results (and fielding) will support the follow on integration of the 10-Band MS-177A sensor upgrade.</p> <p>Funding for this exhibit contained in PE 0305220F.</p> <p>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** February 2019

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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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
MS-177A Sensors ^(†)		2015	United Technology Corporation Aerospace Systems / Westford, MA	SS / FFP	AFLCMC Wright Patterson AFB	Sep 2017	Jan 2020	2	9.050	N	Aug 2017	Apr 2017
MS-177A Sensors ^(†)		2016	United Technology Corporation Aerospace Systems / Westford, MA	SS / FFP	AFLCMC Wright Patterson AFB	Sep 2017	Jan 2020	2	9.050	N	Aug 2017	Apr 2017
MS-177A Sensors ^(†)		2018	United Technology Corporation Aerospace Systems / Westford, MA	SS / FFP	AFLCMC Wright Patterson AFB	Jun 2018	Oct 2020	2	8.405	N	May 2018	Apr 2017
Auxiliary Equipment B-Kits ^(†)		2019	United Technology Corporation Aerospace Systems / Westford, MA	SS / FFP	AFLCMC Wright Patterson AFB	Sep 2019	Jun 2021	6	3.900	N	Jun 2018	Nov 2017

^(†) indicates the presence of a P-21

Remarks:

FY20 RQ-4 sensor funding will support the installation of MS-177A sensors, auxiliary equipment B-kits, fairings and windows, as well as provide funding for support equipment, sensor calibration and focus flights, training, data, ICS, and other activities necessary to complete the fielding of the sensors. The B-kits consist of the SIMs, airborne file servers, tooling, and other related equipment.

Specs are developmental.

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Exhibit P-21, Production Schedule: PB 2020 Air Force **Date:** February 2019

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	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
MS-177A Sensors																															
	1	2015	AF	2	0	2																								2	
	1	2016	AF	2	0	2																								2	
	1	2018	AF	2	0	2																								2	
Auxiliary Equipment B-Kits																															
	2	2019	AF	6	0	6																								6	
							O C T	N O V	D E C	J A N	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 2020 Air Force **Date:** February 2019

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019													Fiscal Year 2020													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	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			
MS-177A Sensors																																	
	1	2015	AF	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0				
	1	2016	AF	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0				
	1	2018	AF	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2				
Auxiliary Equipment B-Kits																																	
	2	2019	AF	6	0	6																							6				
							O C T	N O V	D E C	J A N	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 2020 Air Force **Date:** February 2019

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

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			
MS-177A Sensors																																	
	1	2015	AF		2	2																							0				
	1	2016	AF		2	2																							0				
	1	2018	AF		2	0	2	2																					0				
Auxiliary Equipment B-Kits																																	
	2	2019	AF		6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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 2020 Air Force **Date:** February 2019

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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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2020	1-8-5 For 2020	MAX For 2020	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	United Technology Corporation Aerospace Systems - Westford, MA	1	3	5	0	9	28	37	0	0	0	0
2	United Technology Corporation Aerospace Systems - Westford, MA	1	4	8	0	12	21	33	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-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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:
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Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	1.600	-	1.600
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	1.600	-	1.600
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	1.600	-	1.600

(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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	-	-	-	-	-	-	-	-	-	-	-	1.600	-	-	-	-	-	1.600
Subtotal: Support - GSMP Cost	-	-	-	-	-	-	-	-	-	-	-	1.600	-	-	-	-	-	1.600
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	1.600	-	-	-	-	-	1.600

Remarks:

This project supports production and fielding of a modernized Ground Segment in support of the planned 20-year operational 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.

FY20 funds within this exhibit will be utilized for the procurement of trainers in support of GSMP, and other related costs necessary to begin GSMP production.

Projected DT completion: Q2 2020

Projected OT completion: Q1 2022

Funding for this exhibit contained in PE 0305220F.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
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

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	35.900	5.000	0.200	-	0.200
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	35.900	5.000	0.200	-	0.200
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	35.900	5.000	0.200	-	0.200

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

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

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

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support - RQ-4 Post Production Support Cost																		
DMS	-	-	-	-	-	2.800	-	-	-	-	-	-	-	-	-	-	-	-
Other Government Costs	-	-	-	-	-	32.600	-	-	4.500	-	-	-	-	-	-	-	-	-
PMA Contractor Services	-	-	-	-	-	0.500	-	-	0.500	-	-	0.200	-	-	-	-	-	0.200
<i>Subtotal: Support - RQ-4 Post Production Support Cost</i>	-	-	-	-	-	35.900	-	-	5.000	-	-	0.200	-	-	-	-	-	0.200
Gross/Weapon System Cost	-	-	-	-	-	35.900	-	-	5.000	-	-	0.200	-	-	-	-	-	0.200

Remarks:
FY20 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-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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: T053A0 / T-53A Trainer
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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: 0804748F
---	--	--

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.501	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.501
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.501	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.501
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.501	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.501

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

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

Description:

This line item funds a post production purchase of a T-53 aircraft trainer used at the United States Air Force Academy. There are 24 T-53A aircraft with a design service life of 12,000 hours. The trainer being purchased will be used for emergency procedure training.

Funding for this exhibit contained in PE 0804748F.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

Justification:

No Budget Year FY 2020 funding requested.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 3: Industrial Preparedness

P-1 Line Item Number / Title:
000073 / Industrial Responsiveness

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	30.739	17.378	17.705	-	17.705	18.240	18.606	18.944	19.285	-	140.897
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	30.739	17.378	17.705	-	17.705	18.240	18.606	18.944	19.285	-	140.897
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	30.739	17.378	17.705	-	17.705	18.240	18.606	18.944	19.285	-	140.897

(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 lifecycle 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 2020 Air Force		Date: February 2019
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		
<p>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. Funding for P2 moved to PE 78011F in FY16. Prior to FY15, funds provided through PE 078054F. FY19 moved from BP19 to BP14.</p> <p>As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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				- / -	- / 30.739	- / 17.378	- / 17.705	- / -	- / 17.705
P-40	Total Gross/Weapon System Cost				- / -	- / 30.739	- / 17.378	- / 17.705	- / -	- / 17.705

*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:
 FY2020 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 2020 Air Force **Date:** February 2019

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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	-	-	0.000	-	-	2.378	-	-	2.461	-	-	-	-	-	2.461
Capital Type Rehabilitation (MPC 3000)	A		-	-	-	-	-	22.691	-	-	5.380	-	-	5.853	-	-	-	-	-	5.853
Industrial Base Assessment (MPC 6000)	A		-	-	-	-	-	1.003	-	-	1.014	-	-	1.028	-	-	-	-	-	1.028
Environmental Compliance (MPC 7000)	A		-	-	-	-	-	7.045	-	-	8.606	-	-	8.363	-	-	-	-	-	8.363
Subtotal: Uncategorized			-	-	-	-	-	30.739	-	-	17.378	-	-	17.705	-	-	-	-	-	17.705
Total			-	-	-	-	-	30.739	-	-	17.378	-	-	17.705	-	-	-	-	-	17.705

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 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	137.647	29.342	32.102	-	32.102	40.759	40.957	41.700	42.451	-	364.958
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	137.647	29.342	32.102	-	32.102	40.759	40.957	41.700	42.451	-	364.958
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	137.647	29.342	32.102	-	32.102	40.759	40.957	41.700	42.451	-	364.958

(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 2020 Air Force		Date: February 2019
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		
As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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				- / -	- / 4.560	- / 4.599	- / 4.012	- / -	- / 4.012
P-5	MINIATURE AIR LAUNCHED DECOY		A		- / -	- / 100.159	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	Multi-Platform Electronic Warfare Equipment				- / -	- / 32.928	- / 24.743	- / 28.090	- / -	- / 28.090
P-40	Total Gross/Weapon System Cost				- / -	- / 137.647	- / 29.342	- / 32.102	- / -	- / 32.102

*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: FY20 funds procure all system components: decoys, canisters, and explosive cartridges to deploy the decoys

Items Less Than \$5M: FY20 funding required to procure RATOs, and H1.4 Cutters.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force															Date: February 2019				
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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	135	4.310	0.032	136	4.352	0.032	118	3.782	-	-	-	0.032	118	3.782
H1.4 Cutter	A		-	-	-	0.000	1,968	0.250	0.000	1,968	0.247	0.000	1,832	0.230	-	-	-	0.000	1,832	0.230
Subtotal: Uncategorized			-	-	-	-	-	4.560	-	-	4.599	-	-	4.012	-	-	-	-	-	4.012
Total			-	-	-	-	-	4.560	-	-	4.599	-	-	4.012	-	-	-	-	-	4.012

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

Remarks:
RATO procurement costs account for First Article Testing of new assets, transportation costs, inert motors for training, and travel costs

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: February 2019
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 4	P-1 Line Item Number / Title: 000074 / War Consumables	Item Number / Title [DODIC]: MINIATURE AIR LAUNCHED DECOY

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	100.159	0.000	0.000	-	0.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	100.159	0.000	0.000	-	0.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	100.159	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 (<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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 - MINIATURE AIR LAUNCHED DECOY Cost																		
Recurring Cost																		
Reliability/Test Support/Obsolescence	-	-	-	-	-	0.332	-	-	-	-	-	0.000	-	-	-	-	-	0.000
PMA - Government Cost	-	-	-	-	-	0.012	-	-	-	-	-	-	-	-	-	-	-	-
PMA - Contractor Support	-	-	-	-	-	0.472	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
ECO	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
MALD-J LOT 11	-	-	-	-	-	99.343	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	100.159	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - MINIATURE AIR LAUNCHED DECOY Cost</i>	-	-	-	-	-	100.159	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Gross/Weapon System Cost	-	-	-	-	-	100.159	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force															Date: February 2019				
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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		-	-	-	0.057	577	32.928	0.058	427	24.743	0.058	484	28.090	-	-	-	0.058	484	28.090
Subtotal: Hardware			-	-	-	-	-	32.928	-	-	24.743	-	-	28.090	-	-	-	-	-	28.090
Total			-	-	-	-	-	32.928	-	-	24.743	-	-	28.090	-	-	-	-	-	28.090

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 2020 Air Force **Date:** February 2019

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 ProductionCharges
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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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	1,158.179	1,420.202	1,194.728	-	1,194.728	1,370.957	1,421.339	1,998.135	2,287.169	-	10,850.709
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	1,158.179	1,420.202	1,194.728	-	1,194.728	1,370.957	1,421.339	1,998.135	2,287.169	-	10,850.709
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	1,158.179	1,420.202	1,194.728	-	1,194.728	1,370.957	1,421.339	1,998.135	2,287.169	-	10,850.709

(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 2020 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.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** February 2019

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 ProductionCharges

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Precision Attack Systems Procurement				- / -	- / -	- / 22.000	- / -	- / -	- / -
P-40a	B-2 Squadrons				- / -	- / 19.095	- / 13.827	- / 4.682	- / -	- / 4.682
P-40a	B-52				- / -	- / 0.000	- / 0.981	- / -	- / -	- / -
P-40a	C-5 Airlift Squadrons (IF)				- / -	- / 0.000	- / 0.000	- / 0.585	- / -	- / 0.585
P-40a	Classified Programs				- / -	- / 954.569	- / 1,031.762	- / 918.794	- / -	- / 918.794
P-40a	Combat Training Range Equipment				- / -	- / 0.000	- / 8.332	- / 0.300	- / 0.000	- / 0.300
P-40a	Electronic Warfare Integrated Reprogramming (EWIR)				- / -	- / 3.663	- / 3.631	- / 3.739	- / -	- / 3.739
P-40a	F-15A/B/C/D Squadrons				- / -	- / 0.000	- / 0.000	- / 2.500	- / 0.000	- / 2.500
P-40a	F-15E Squadrons				- / -	- / 28.900	- / 52.271	- / 48.356	- / -	- / 48.356
P-40a	F-22A Squad				- / -	- / 1.843	- / 76.706	- / 101.319	- / -	- / 101.319
P-40a	Family of Advanced BLoS Terminals (FAB-T)				- / -	- / 0.000	- / 0.000	- / 1.700	- / -	- / 1.700
P-40a	ICBM Helicopter Support				- / -	- / 11.978	- / -	- / -	- / -	- / -
P-40a	Industrial Preparedness				- / -	- / 2.358	- / -	- / -	- / -	- / -
P-40a	MAF Training				- / -	- / 0.600	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40a	MQ-9 UAV				- / -	- / 36.368	- / 25.671	- / 26.607	- / -	- / 26.607
P-40a	Multi-Platform Electronic Warfare Equipment (EW POD)				- / -	- / 6.103	- / 69.590	- / 43.869	- / -	- / 43.869
P-40a	RQ-4 UAV				- / -	- / 8.784	- / 0.091	- / 16.070	- / -	- / 16.070
P-40a	Service Support to NATO AEWC Program				- / -	- / 50.652	- / 91.071	- / 9.693	- / -	- / 9.693
P-40a	Supply Depot Operations (Non-IF)				- / -	- / 13.486	- / -	- / -	- / -	- / -
P-40a	Aerial Targets				- / -	- / 19.780	- / 24.269	- / 16.514	- / -	- / 16.514
P-40	Total Gross/Weapon System Cost				- / -	- / 1,158.179	- / 1,420.202	- / 1,194.728	- / -	- / 1,194.728

*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.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: Precision Attack Systems Procurement
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / POE	A		-	-	-	-	-	-	-	-	22.000	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	22.000	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	22.000	-	-	-	-	-	-	-	-	-

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.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: B-2 Squadrons
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / B-2 Squadrons	A		-	-	-	-	-	19.095	-	-	13.827	-	-	4.682	-	-	-	-	-	4.682
Subtotal: Uncategorized			-	-	-	-	-	19.095	-	-	13.827	-	-	4.682	-	-	-	-	-	4.682
Total			-	-	-	-	-	19.095	-	-	13.827	-	-	4.682	-	-	-	-	-	4.682

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

Remarks:

These funds will be used to achieve Depot Activation of B-2 components and/or continued support for depot activities of B-2 components at contractor facilities as well as new components stemming from B-2 aircraft programs, as directed by HQ AFMC via the Source of Repair Assignment process and includes associated travel. Depot Activation efforts continue to include purchase of automated test equipment, data, and development of Test Program Set (TPS) software to support establishment of an organic repair capability for B-2 avionics and mechanical components. BP19 funds will also continue to replace multiple obsolete and unsupported Special Test Equipment (STE) and procurement and/or refurbishment of production tooling in use by repair contractors.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: B-52
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / B-52	A		-	-	-	-	-	0.000	-	-	0.981	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	0.981	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	0.000	-	-	0.981	-	-	-	-	-	-	-	-	

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.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: C-5 Airlift Squadrons (IF)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / C-5	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.585	-	-	-	-	-	0.585
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	0.000	-	-	0.585	-	-	-	-	-	0.585
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	0.585	-	-	-	-	-	0.585

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

Remarks:
Funds are to be used to support depot activation requirements for the C-5 modifications.

This is a new start for FY 2020.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: Classified Programs
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / Classified Programs	A		-	-	-	-	-	954.569	-	-	1,031.762	-	-	918.794	-	-	-	-	-	918.794
Subtotal: Uncategorized			-	-	-	-	-	954.569	-	-	1,031.762	-	-	918.794	-	-	-	-	-	918.794
Total			-	-	-	-	-	954.569	-	-	1,031.762	-	-	918.794	-	-	-	-	-	918.794

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

Remarks:
This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: Combat Training Range Equipment
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / Combat Training Range Equipment	A		-	-	-	-	-	0.000	-	-	8.332	-	-	0.300	-	-	0.000	-	-	0.300
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	8.332	-	-	0.300	-	-	0.000	-	-	0.300
Total			-	-	-	-	-	0.000	-	-	8.332	-	-	0.300	-	-	0.000	-	-	0.300

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. ACC has established a requirement for additional pods to meet training requirements through that lifecycle.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force														Date: February 2019					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5							P-1 Line Item Number / Title: 000075 / Other ProductionCharges							Aggregated Items Title: Electronic Warfare Integrated Reprogramming (EWIR)					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / Electronic Warfare Integrated Reprogramming (EWIR)	A		-	-	-	-	-	3.663	-	-	3.631	-	-	3.739	-	-	-	-	-	3.739
Subtotal: Uncategorized			-	-	-	-	-	3.663	-	-	3.631	-	-	3.739	-	-	-	-	-	3.739
Total			-	-	-	-	-	3.663	-	-	3.631	-	-	3.739	-	-	-	-	-	3.739

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. FY20 funding continues these efforts.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
113 / Mode 5 Program Office Estimate	A		-	-	-	-	-	0.000	-	-	0.000	-	-	2.500	-	-	0.000	-	-	2.500
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	0.000	-	-	2.500	-	-	0.000	-	-	2.500
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	2.500	-	-	0.000	-	-	2.500

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.

This is a new start for FY 2020.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: F-15E Squadrons
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / APG-82(V)1 Depot Standup Program Office Estimate	A		-	-	-	-	-	28.900	-	-	52.271	-	-	48.356	-	-	-	-	-	48.356
Subtotal: Uncategorized			-	-	-	-	-	28.900	-	-	52.271	-	-	48.356	-	-	-	-	-	48.356
Total			-	-	-	-	-	28.900	-	-	52.271	-	-	48.356	-	-	-	-	-	48.356

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 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: F-22A Squad
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / F-22 A Squadrons	A		-	-	-	-	-	1.843	-	-	76.706	-	-	101.319	-	-	-	-	-	101.319
Subtotal: Uncategorized			-	-	-	-	-	1.843	-	-	76.706	-	-	101.319	-	-	-	-	-	101.319
Total			-	-	-	-	-	1.843	-	-	76.706	-	-	101.319	-	-	-	-	-	101.319

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.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force													Date: February 2019					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5						P-1 Line Item Number / Title: 000075 / Other ProductionCharges						Aggregated Items Title: Family of Advanced BLoS Terminals (FAB-T)						

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / Family of Advanced BLoS Terminals (FAB-T)	A		-	-	-	-	-	0.000	-	-	0.000	-	-	1.700	-	-	-	-	-	1.700
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	0.000	-	-	1.700	-	-	-	-	-	1.700
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	1.700	-	-	-	-	-	1.700

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

Remarks:
Family of Advanced BLoS Terminals (FAB-T)

This is a new start for FY 2020.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: ICBM Helicopter Support
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / UH-1N Service Life Extension Program (SLEP)	A		-	-	-	-	-	11.978	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	11.978	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	11.978	-	-	-	-	-	-	-	-	-	-	-	-

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

Remarks:
 The UH-1N is a 45+ year old helicopter and requires work to address concerns identified within multiple studies which will prevent aircraft groundings. This program will accomplish a Service Life Extension Program (SLEP) for a portion of the UH-1N fleet to address issues with this aging fleet, e.g., structural repairs, replacement of key systems based on structural fatigue, system obsolescence and a diminishing manufacturing industrial base. Additionally, this effort will address safety requirements; Federal Aviation Administration, DoD and engineering mandates; and configuration changes. This effort includes funding for the UH-1N System Program Office (e.g., A&AS, support, travel). In FY 2019 funding in this line moved from BA 7 to BA 5 for proper execution. No FY 2020 funding requested.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5 **P-1 Line Item Number / Title:** 000075 / Other ProductionCharges **Aggregated Items Title:** Industrial Preparedness

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / Industrial Preparedness	A		-	-	-	-	-	2.358	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	-	-	-	2.358	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	2.358	-	-	-	-	-	-	-	-	-	-	-	

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

Remarks:
Industrial Preparedness

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5 **P-1 Line Item Number / Title:** 000075 / Other ProductionCharges **Aggregated Items Title:** MAF Training

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / MAF Training	A		-	-	-	-	-	0.600	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Uncategorized			-	-	-	-	-	0.600	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Total			-	-	-	-	-	0.600	-	-	0.000	-	-	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:

Funding is for Mobility Air Forces Distributed Mission Operations Modifications.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: MQ-9 UAV
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / MQ-9	A		-	-	-	-	-	36.368	-	-	25.671	-	-	26.607	-	-	-	-	-	26.607
Subtotal: Uncategorized			-	-	-	-	-	36.368	-	-	25.671	-	-	26.607	-	-	-	-	-	26.607
Total			-	-	-	-	-	36.368	-	-	25.671	-	-	26.607	-	-	-	-	-	26.607

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 2020 Air Force														Date: February 2019					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5							P-1 Line Item Number / Title: 000075 / Other ProductionCharges							Aggregated Items Title: Multi-Platform Electronic Warfare Equipment (EW POD)					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / EW POD	A		-	-	-	-	-	6.103	-	-	69.590	-	-	43.869	-	-	-	-	-	43.869
Subtotal: Uncategorized			-	-	-	-	-	6.103	-	-	69.590	-	-	43.869	-	-	-	-	-	43.869
Total			-	-	-	-	-	6.103	-	-	69.590	-	-	43.869	-	-	-	-	-	43.869

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 (EA PUP) 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.

FY 2019 includes \$10M Congressional Add for AN/ALQ-128v2 used by the F-15.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: RQ-4 UAV
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / RQ-4 UAV	A		-	-	-	-	-	8.784	-	-	0.091	-	-	16.070	-	-	-	-	-	16.070
Subtotal: Uncategorized			-	-	-	-	-	8.784	-	-	0.091	-	-	16.070	-	-	-	-	-	16.070
Total			-	-	-	-	-	8.784	-	-	0.091	-	-	16.070	-	-	-	-	-	16.070

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 2020 Air Force														Date: February 2019					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5							P-1 Line Item Number / Title: 000075 / Other ProductionCharges							Aggregated Items Title: Service Support to NATO AEWC Program					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / NATO AWACS-Modernization Projects	A		-	-	-	-	-	50.652	-	-	91.071	-	-	9.693	-	-	-	-	-	9.693
Subtotal: Uncategorized			-	-	-	-	-	50.652	-	-	91.071	-	-	9.693	-	-	-	-	-	9.693
Total			-	-	-	-	-	50.652	-	-	91.071	-	-	9.693	-	-	-	-	-	9.693

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 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5 **P-1 Line Item Number / Title:** 000075 / Other ProductionCharges **Aggregated Items Title:** Supply Depot Operations (Non-IF)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / Supply Depot Operations (Non-IF)	A		-	-	-	-	-	13.486	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	-	-	-	13.486	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	13.486	-	-	-	-	-	-	-	-	-	-	-	

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 2020 Air Force **Date:** February 2019

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 07 / 5	P-1 Line Item Number / Title: 000075 / Other ProductionCharges	Aggregated Items Title: Aerial Targets
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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																				
000075 / Aerial Targets	A		-	-	-	-	-	19.780	-	-	24.269	-	-	16.514	-	-	-	-	-	16.514
Subtotal: Uncategorized			-	-	-	-	-	19.780	-	-	24.269	-	-	16.514	-	-	-	-	-	16.514
Total			-	-	-	-	-	19.780	-	-	24.269	-	-	16.514	-	-	-	-	-	16.514

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. FY20 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 2020 Air Force **Date:** February 2019

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	3.194	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	3.194
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	3.194	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	3.194
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	3.194	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	3.194

(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 directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

Justification:

No FY20 funding is requested.

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