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**Department of Defense
Fiscal Year (FY) 2017 President's Budget Submission**

February 2016



Air Force

Justification Book Volume 2 of 2

Aircraft Procurement, Air Force

Vol-2 Mods

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Air Force • President's Budget Submission FY 2017 • Procurement

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Department of the Air Force
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

27 Jan 2016

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2015 (Base & OCO) -----	FY 2016 Base Enacted -----	FY 2016 OCO Enacted -----	FY 2016 Total Enacted -----
01. Combat Aircraft	4,044,721	5,720,072		5,720,072
02. Airlift Aircraft	3,020,576	4,567,461		4,567,461
04. Other Aircraft	580,089	850,607	13,500	864,107
05. Modification of Inservice Aircraft	3,056,853	2,609,702	115,400	2,725,102
06. Aircraft Spares and Repair Parts	534,385	631,242		631,242
07. Aircraft Supt Equipment & Facilities	1,256,305	1,373,523		1,373,523
Total Aircraft Procurement, Air Force	12,492,929	15,752,607	128,900	15,881,507

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Department of the Air Force
FY 2017 President's Budget
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Total Obligational Authority
(Dollars in Thousands)

27 Jan 2016

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2017 Base -----	FY 2017 OCO -----	FY 2017 Total -----
01. Combat Aircraft	4,806,394		4,806,394
02. Airlift Aircraft	3,966,180	73,000	4,039,180
04. Other Aircraft	271,118	453,030	724,148
05. Modification of Inservice Aircraft	2,504,954	299,369	2,804,323
06. Aircraft Spares and Repair Parts	686,491	25,600	712,091
07. Aircraft Supt Equipment & Facilities	1,687,780	8,400	1,696,180
Total Aircraft Procurement, Air Force	13,922,917	859,399	14,782,316

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

27 Jan 2016

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											
Tactical Forces											
1	F-35	A	28	(3,965,374)	47	(5,678,692)			47	(5,678,692)	U
	Less: Advance Procurement (PY)			(-339,533)		(-418,880)				(-418,880)	U
				3,625,841		5,259,812				5,259,812	
2	F-35			418,880		460,260				460,260	U
	Advance Procurement (CY)			(418,880)							
	C (FY 2015 for FY 2016) (M)					(460,260)				(460,260)	
	C (FY 2016 for FY 2017) (M)										
	C (FY 2017 for FY 2018) (M)										
Total Combat Aircraft				4,044,721		5,720,072				5,720,072	
Budget Activity 02: Airlift Aircraft											
Tactical Airlift											
3	KC-46A Tanker	A	7	1,573,185	12	2,350,601			12	2,350,601	U
Other Airlift											
4	C-130J	A	8	(650,396)	14	(1,037,554)			14	(1,037,554)	U
	Less: Advance Procurement (PY)			(-98,000)		(-196,000)				(-196,000)	U
				552,396		841,554				841,554	
5	C-130J			140,000		50,000				50,000	U
	Advance Procurement (CY)			(140,000)							
	C (FY 2015 for FY 2016) (M)					(50,000)				(50,000)	
	C (FY 2016 for FY 2017) (M)										

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27 Jan 2016

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft									
Tactical Forces									
1	F-35	A	43	(4,862,154)			43	(4,862,154)	U
	Less: Advance Procurement (PY)			(-460,260)				(-460,260)	U
				4,401,894				4,401,894	
2	F-35			404,500				404,500	U
	Advance Procurement (CY)								
	C (FY 2015 for FY 2016) (M)								
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)			(404,500)				(404,500)	
Total Combat Aircraft				4,806,394				4,806,394	
Budget Activity 02: Airlift Aircraft									
Tactical Airlift									
3	KC-46A Tanker	A	15	2,884,591			15	2,884,591	U
Other Airlift									
4	C-130J	A	2	(203,655)	1	(73,000)	3	(276,655)	U
	Less: Advance Procurement (PY)			(-58,000)				(-58,000)	U
				145,655		73,000		218,655	
5	C-130J								U
	Advance Procurement (CY)								
	C (FY 2015 for FY 2016) (M)								
	C (FY 2016 for FY 2017) (M)								

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27 Jan 2016

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
6	HC-130J	A	4	(388,024)	5	(514,434)			5	(514,434)	U
	Less: Advance Procurement (PY)			(-56,000)		(-70,000)				(-70,000)	U
				332,024		444,434				444,434	
7	HC-130J			50,000		30,000				30,000	U
	Advance Procurement (CY)			(50,000)							
	C (FY 2015 for FY 2016) (M)					(30,000)				(30,000)	
	C (FY 2016 for FY 2017) (M)										
	C (FY 2017 for FY 2018) (M)										
8	MC-130J	A	3	(320,971)	8	(902,872)			8	(902,872)	U
	Less: Advance Procurement (PY)			(-28,000)		(-112,000)				(-112,000)	U
				292,971		790,872				790,872	
9	MC-130J			80,000		60,000				60,000	U
	Advance Procurement (CY)			(80,000)							
	C (FY 2015 for FY 2016) (M)					(60,000)				(60,000)	
	C (FY 2016 for FY 2017) (M)										
	C (FY 2017 for FY 2018) (M)										
Total Airlift Aircraft				3,020,576		4,567,461				4,567,461	
Budget Activity 04: Other Aircraft											

Helicopters											
10	UUH-1N Replacement										U
11	CV-22 (MYP)	A		15,000	1	64,500			1	64,500	U
Mission Support Aircraft											
12	Civil Air Patrol A/C	A	20	10,400	20	10,400			20	10,400	U

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Other Aircraft

13 Target Drones	A	19	81,996	50	131,879	50	131,879	U
14 RQ-4	A		54,475		29,900		29,900	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
6	HC-130J	A	3	(359,576)			3	(359,576)	U
	Less: Advance Procurement (PY)			(-42,000)				(-42,000)	U
				317,576				317,576	
7	HC-130J			20,000				20,000	U
	Advance Procurement (CY)								
	C (FY 2015 for FY 2016) (M)								
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)			(20,000)				(20,000)	
8	MC-130J	A	6	(628,358)			6	(628,358)	U
	Less: Advance Procurement (PY)			(-80,000)				(-80,000)	U
				548,358				548,358	
9	MC-130J			50,000				50,000	U
	Advance Procurement (CY)								
	C (FY 2015 for FY 2016) (M)								
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)			(50,000)				(50,000)	
Total Airlift Aircraft				3,966,180		73,000		4,039,180	
Budget Activity 04: Other Aircraft									

Helicopters									
10	UUH-1N Replacement			18,337				18,337	U
11	CV-22 (MYP)	A							U
Mission Support Aircraft									
12	Civil Air Patrol A/C	A	6	2,637			6	2,637	U

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Other Aircraft

13 Target Drones	A	41	114,656	41	114,656	U
14 RQ-4	A		12,966		12,966	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
15	MQ-9	A	24	418,218	33	613,928		13,500	33	627,428	U
Total Other Aircraft				580,089		850,607		13,500		864,107	
Budget Activity 05: Modification of Inservice Aircraft											
Strategic Aircraft											
16	B-2A	A		17,653		32,458				32,458	U
17	B-1B	A		219,869		114,119				114,119	U
18	B-52	A		162,114		144,912				144,912	U
19	Large Aircraft Infrared Countermeasures	A		12,879		84,335				84,335	U
Tactical Aircraft											
20	A-10	A									U
21	F-15	A		498,314		598,932				598,932	U
22	F-16	A		9,042		10,134				10,134	U
23	F-22A	A		180,207		116,077				116,077	U
24	F-35 Modifications	A		187,646		70,167				70,167	U
25	Increment 3.2b					(92,825)				(92,825)	U
	Less: Advance Procurement (PY)					(-28,500)				(-28,500)	U
						64,325				64,325	
26	Increment 3.2b										
	Advance Procurement (CY)			28,500							U
	C (FY 2015 for FY 2015) (M)			(28,500)							

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C (FY 2017 for FY 2018) (M)

Airlift Aircraft

27 C-5	A	14,731	2,604	2,604 U
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Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
15	MQ-9	A		122,522	24	453,030	24	575,552	U
Total Other Aircraft				271,118		453,030		724,148	
Budget Activity 05: Modification of Inservice Aircraft									
Strategic Aircraft									
16	B-2A	A		46,729				46,729	U
17	B-1B	A		116,319				116,319	U
18	B-52	A		109,020				109,020	U
19	Large Aircraft Infrared Countermeasures	A				135,801		135,801	U
Tactical Aircraft									
20	A-10	A		1,289		23,850		25,139	U
21	F-15	A		105,685				105,685	U
22	F-16	A		97,331				97,331	U
23	F-22A	A		163,008				163,008	U
24	F-35 Modifications	A		175,811				175,811	U
25	Increment 3.2b			(76,410)				(76,410)	U
	Less: Advance Procurement (PY)								U
				76,410				76,410	
26	Increment 3.2b								
	Advance Procurement (CY)			2,000				2,000	U
	C (FY 2015 for FY 2015) (M)								

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C (FY 2017 for FY 2018) (M)		(2,000)	(2,000)
Airlift Aircraft			
27 C-5	A	24,192	24,192 U

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27 Jan 2016

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
28	C-5M	A		317,466							U
29	C-17A	A		86,394		43,697				43,697	U
30	C-21	A		264		9,860				9,860	U
31	C-32A	A		8,767		39,464				39,464	U
32	C-37A	A		18,457		10,861				10,861	U
Trainer Aircraft											
33	Glider Mods	A		1,132		134				134	U
34	T-6	A		14,484		14,968				14,968	U
35	T-1	A		7,650		13,106				13,106	U
36	T-38	A		28,845		30,604				30,604	U
Other Aircraft											
37	U-2 Mods	A				22,095				22,095	U
38	KC-10A (ATCA)	A		77,513		5,611				5,611	U
39	C-12	A		1,960		1,980				1,980	U
40	VC-25A Mod	A		1,072		98,231				98,231	U
41	C-40	A		7,292		11,171				11,171	U
42	C-130	A		159,309		135,248		1,410		136,658	U
43	C-130J Mods	A		25,919		29,713				29,713	U
44	C-135	A		63,568		48,868				48,868	U

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45 Compass Call Mods	A	82,628	96,990	96,990 U
46 RC-135	A	163,346	165,715	165,715 U

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Department of the Air Force
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 (Dollars in Thousands)

27 Jan 2016

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Base Quantity	FY 2017 Base Cost	FY 2017 OCO Quantity	FY 2017 OCO Cost	FY 2017 Total Quantity	FY 2017 Total Cost	Se
28	C-5M	A							U
29	C-17A	A		21,555			21,555		U
30	C-21	A		5,439			5,439		U
31	C-32A	A		35,235			35,235		U
32	C-37A	A		5,004			5,004		U
Trainer Aircraft									
33	Glider Mods	A		394			394		U
34	T-6	A		12,765			12,765		U
35	T-1	A		25,073			25,073		U
36	T-38	A		45,090			45,090		U
Other Aircraft									
37	U-2 Mods	A		36,074			36,074		U
38	KC-10A (ATCA)	A		4,570			4,570		U
39	C-12	A		1,995			1,995		U
40	VC-25A Mod	A		102,670			102,670		U
41	C-40	A		13,984			13,984		U
42	C-130	A		9,168			9,168		U
43	C-130J Mods	A		89,424			89,424		U
44	C-135	A		64,161			64,161		U

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45 Compass Call Mods	A	130,257	130,257 U
46 RC-135	A	211,438	211,438 U

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Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
47	E-3	A		16,491		12,828				12,828	U
48	E-4	A		17,091		19,937				19,937	U
49	E-8	A				18,001				18,001	U
50	Airborne Warning and Control System	A		191,284		178,308				178,308	U
51	Family of Beyond Line-of-Sight Terminals	A		27,026	8	43,843			8	43,843	U
52	H-1	A		8,237		6,291				6,291	U
53	UH-1N Replacement					2,456				2,456	U
54	H-60	A		60,110		27,754		39,300		67,054	U
55	RQ-4 Mods	A		21,354		50,022				50,022	U
56	HC/MC-130 Modifications	A		43,202		21,660		5,690		27,350	U
57	Other Aircraft	A		39,963		35,396				35,396	U
58	MQ-1 Mods	A		4,755		3,173				3,173	U
59	MQ-9 Mods	A		155,445		115,051		69,000		184,051	U
60	CV-22 Mods	A		74,874		58,603				58,603	U
Total Modification of Inservice Aircraft				3,056,853		2,609,702		115,400		2,725,102	
Budget Activity 06: Aircraft Spares and Repair Parts											

Aircraft Spares and Repair Parts											
61	Initial Spares/Repair Parts	A		534,385		631,242				631,242	U

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Total Aircraft Spares and Repair Parts

534,385

631,242

631,242

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
47	E-3	A		82,786		6,600		89,386	U
48	E-4	A		53,348				53,348	U
49	E-8	A		6,244				6,244	U
50	Airborne Warning and Control System	A		223,427				223,427	U
51	Family of Beyond Line-of-Sight Terminals	A	3	4,673			3	4,673	U
52	H-1	A		9,007				9,007	U
53	UH-1N Replacement								U
54	H-60	A		91,357				91,357	U
55	RQ-4 Mods	A		32,045				32,045	U
56	HC/MC-130 Modifications	A		30,767		13,550		44,317	U
57	Other Aircraft	A		33,886		7,500		41,386	U
58	MQ-1 Mods	A							U
59	MQ-9 Mods	A		141,929		112,068		253,997	U
60	CV-22 Mods	A		63,395				63,395	U
Total Modification of Inservice Aircraft				2,504,954		299,369		2,804,323	
Budget Activity 06: Aircraft Spares and Repair Parts									

Aircraft Spares and Repair Parts									
61	Initial Spares/Repair Parts	A		686,491		25,600		712,091	U

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Total Aircraft Spares and Repair Parts

686,491

25,600

712,091

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 07: Aircraft Supt Equipment & Facilities											

Common Support Equipment											
62	Aircraft Replacement Support Equip	A		23,294		33,716				33,716	U
Post Production Support											
63	B-2A	A									U
64	B-2a	A		44,793		38,837				38,837	U
65	B-52	A		1,328		5,911				5,911	U
66	C-17A	A		20,110		15,054				15,054	U
67	CV-22 Post Production Support			16,931		3,353				3,353	U
68	C-135	A		564		2,245				2,245	U
69	F-15	A		1,122		3,225				3,225	U
70	F-16	A		9,994		8,969				8,969	U
71	F-22A	A		5,929		971				971	U
72	Other Aircraft	A		27							U
73	MQ-9	A				5,000				5,000	U
74	RQ-4 Post Production Charges	A									U
Industrial Preparedness											
75	Industrial Responsiveness	A		22,003		18,802				18,802	U

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War Consumables

76 War Consumables

A

99,487

156,465

156,465 U

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Department of the Air Force
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

27 Jan 2016

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 07: Aircraft Supt Equipment & Facilities									

Common Support Equipment									
62	Aircraft Replacement Support Equip	A		121,935				121,935	U
Post Production Support									
63	B-2A	A		154				154	U
64	B-2a	A		43,330				43,330	U
65	B-52	A		28,125				28,125	U
66	C-17A	A		23,559				23,559	U
67	CV-22 Post Production Support								U
68	C-135	A							U
69	F-15	A		2,980				2,980	U
70	F-16	A		15,155				15,155	U
71	F-22A	A		48,505				48,505	U
72	Other Aircraft	A							U
73	MQ-9	A							U
74	RQ-4 Post Production Charges	A		99				99	U
Industrial Preparedness									
75	Industrial Responsiveness	A		14,126				14,126	U

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War Consumables

76 War Consumables

A

120,036

120,036 U

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Department of the Air Force
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 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

27 Jan 2016

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO) Quantity Cost	FY 2016 Base Enacted Quantity Cost	FY 2016 OCO Enacted Quantity Cost	FY 2016 Total Enacted Quantity Cost	S e c
	Other Production Charges						
77	Other Production Charges	A	941,343	1,038,472		1,038,472	U
999	Classified Programs		69,380	42,503		42,503	U
	Total Aircraft Supt Equipment & Facilities		1,256,305	1,373,523		1,373,523	
	Total Aircraft Procurement, Air Force		12,492,929	15,752,607	128,900	15,881,507	

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Department of the Air Force
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

27 Jan 2016

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Base Quantity	FY 2017 Base Cost	FY 2017 OCO Quantity	FY 2017 OCO Cost	FY 2017 Total Quantity	FY 2017 Total Cost	Se c
	Other Production Charges								
77	Other Production Charges	A	1,252,824		8,400		1,261,224		U
999	Classified Programs		16,952				16,952		U
	Total Aircraft Supt Equipment & Facilities		1,687,780		8,400		1,696,180		
	Total Aircraft Procurement, Air Force		13,922,917		859,399		14,782,316		

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Air Force • President's Budget Submission FY 2017 • Procurement

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Appropriation 3010F: Aircraft Procurement, Air Force

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1	01	03	ATA000	F-35.....	Volume 1 - 1
2	01	03	ATA000	F-35, Advance Procurement.....	Volume 1 - 23

Appropriation 3010F: Aircraft Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
3	02	02	KC046A	KC-46A Tanker.....	Volume 1 - 27
4	02	03	C130J0	C-130J.....	Volume 1 - 39
5	02	03	C130J0	C-130J, Advance Procurement.....	Volume 1 - 51
6	02	03	C130JH	HC-130J.....	Volume 1 - 55
7	02	03	C130JH	HC-130J, Advance Procurement.....	Volume 1 - 67
8	02	03	C130JM	MC-130J.....	Volume 1 - 71
9	02	03	C130JM	MC-130J, Advance Procurement.....	Volume 1 - 83

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Appropriation 3010F: Aircraft Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
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11	04	01	V022A0	CV-22 (MYP).....	Volume 1 - 97
12	04	04	CAPAC0	Civil Air Patrol A/C.....	Volume 1 - 109
13	04	05	10TRGT	Target Drones.....	Volume 1 - 113
14	04	05	HAEUAV	RQ-4.....	Volume 1 - 131
15	04	05	PRDTB1	MQ-9.....	Volume 1 - 147

Appropriation 3010F: Aircraft Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
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17	05	01	B01B00	B-1B.....	Volume 2 - 23
18	05	01	B05200	B-52.....	Volume 2 - 35
19	05	01	LAIRCM	Large Aircraft Infrared Countermeasures.....	Volume 2 - 43
20	05	02	A01000	A-10.....	Volume 2 - 71

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Air Force • President's Budget Submission FY 2017 • Procurement

Appropriation 3010F: Aircraft Procurement, Air Force

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21	05	02	F01500	F-15.....	Volume 2 - 77
22	05	02	F01600	F-16.....	Volume 2 - 85
23	05	02	F02200	F-22A.....	Volume 2 - 105
24	05	02	F03500	F-35 Modifications.....	Volume 2 - 119
25	05	02	F2232B	Increment 3.2b.....	Volume 2 - 133
26	05	02	F2232B	Increment 3.2b, Advance Procurement.....	Volume 2 - 139
27	05	03	C00500	C-5.....	Volume 2 - 143
28	05	03	C005M0	C-5M.....	Volume 2 - 153
29	05	03	C01700	C-17A.....	Volume 2 - 155
30	05	03	C02100	C-21.....	Volume 2 - 169
31	05	03	C03200	C-32A.....	Volume 2 - 175
32	05	03	C03700	C-37A.....	Volume 2 - 181
33	05	04	GLID00	GLIDER Mods.....	Volume 2 - 183
34	05	04	JPAT00	T-6.....	Volume 2 - 185
35	05	04	T00100	T-1.....	Volume 2 - 191
36	05	04	T03800	T-38.....	Volume 2 - 197
37	05	05	11U200	U-2 Mods.....	Volume 2 - 211
38	05	05	C01000	KC-10A (ATCA).....	Volume 2 - 217

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39	05	05	C01200	C-12.....	Volume 2 - 219
40	05	05	C02500	VC-25A Mod.....	Volume 2 - 221
41	05	05	C04000	C-40.....	Volume 2 - 227
42	05	05	C13000	C-130.....	Volume 2 - 233
43	05	05	C1300J	C-130J Mods.....	Volume 2 - 249
44	05	05	C13500	C-135.....	Volume 2 - 259
45	05	05	CALL00	COMPASS CALL Mods.....	Volume 2 - 269
46	05	05	DARP01	RC-135.....	Volume 2 - 279
47	05	05	E00300	E-3.....	Volume 2 - 291
48	05	05	E00400	E-4.....	Volume 2 - 301
49	05	05	E00800	E-8.....	Volume 2 - 309
50	05	05	E34045	Airborne Warning and Control System.....	Volume 2 - 315
51	05	05	FBLOST	Family of Beyond Line-of-Sight Terminals.....	Volume 2 - 323
52	05	05	H00100	H-1.....	Volume 2 - 325
53	05	05	H0106O	UH-1N Replacement.....	Volume 2 - 327
54	05	05	H06000	H-60.....	Volume 2 - 329
55	05	05	HAWK00	RQ-4 MODS.....	Volume 2 - 351
56	05	05	HCMC00	HC/MC-130 Modifications.....	Volume 2 - 369

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Appropriation 3010F: Aircraft Procurement, Air Force

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58	05	05	PRDT01	MQ-1 Mods.....	Volume 2 - 397
59	05	05	PRDTB2	MQ-9 MODS.....	Volume 2 - 399
60	05	05	V02200	CV-22 MODS.....	Volume 2 - 427

Appropriation 3010F: Aircraft Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
61	06	10	000999	Initial Spares/Repair Parts.....	Volume 1 - 163

Appropriation 3010F: Aircraft Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
62	07	01	71	Aircraft Replacement Support Equip.....	Volume 1 - 169
63	07	02	B00200	B-2A.....	Volume 1 - 201
64	07	02	B002B0	B-2a.....	Volume 1 - 205

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Line #	BA	BSA	Line Item Number	Line Item Title	Page
65	07	02	B05200	B-52.....	Volume 1 - 209
66	07	02	C01700	C-17A.....	Volume 1 - 213
67	07	02	C0V220	CV-22 Post Production Support.....	Volume 1 - 217
68	07	02	C13500	C-135.....	Volume 1 - 221
69	07	02	F0150P	F-15.....	Volume 1 - 223
70	07	02	F0160P	F-16.....	Volume 1 - 227
71	07	02	F02200	F-22A.....	Volume 1 - 231
72	07	02	OTHACF	Other Aircraft.....	Volume 1 - 235
73	07	02	PRDTB1	MQ-9.....	Volume 1 - 239
74	07	02	RQ4DIS	RQ-4 Post Production Charges.....	Volume 1 - 241
75	07	03	75	Industrial Responsiveness.....	Volume 1 - 253
76	07	04	76	War Consumables.....	Volume 1 - 257
77	07	05	0000751	Other Production Charges.....	Volume 1 - 263

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Air Force • President's Budget Submission FY 2017 • Procurement

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Aircraft Replacement Support Equip	71	62	07	01.....	Volume 1 - 169
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B-2A	B00200	63	07	02.....	Volume 1 - 201
B-2A	B00200	16	05	01.....	Volume 2 - 1
B-2a	B002B0	64	07	02.....	Volume 1 - 205
B-52	B05200	65	07	02.....	Volume 1 - 209
B-52	B05200	18	05	01.....	Volume 2 - 35
C-12	C01200	39	05	05.....	Volume 2 - 219
C-130	C13000	42	05	05.....	Volume 2 - 233
C-130J	C130J0	4	02	03.....	Volume 1 - 39
C-130J, Advance Procurement	C130J0	5	02	03.....	Volume 1 - 51
C-130J Mods	C1300J	43	05	05.....	Volume 2 - 249
C-135	C13500	68	07	02.....	Volume 1 - 221
C-135	C13500	44	05	05.....	Volume 2 - 259
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C-21	C02100	30	05	03.....	Volume 2 - 169
C-32A	C03200	31	05	03.....	Volume 2 - 175
C-37A	C03700	32	05	03.....	Volume 2 - 181
C-40	C04000	41	05	05.....	Volume 2 - 227
C-5	C00500	27	05	03.....	Volume 2 - 143
C-5M	C005M0	28	05	03.....	Volume 2 - 153
COMPASS CALL Mods	CALL00	45	05	05.....	Volume 2 - 269
CV-22 (MYP)	V022A0	11	04	01.....	Volume 1 - 97
CV-22 MODS	V02200	60	05	05.....	Volume 2 - 427
CV-22 Post Production Support	C0V220	67	07	02.....	Volume 1 - 217
Civil Air Patrol A/C	CAPAC0	12	04	04.....	Volume 1 - 109
E-3	E00300	47	05	05.....	Volume 2 - 291
E-4	E00400	48	05	05.....	Volume 2 - 301
E-8	E00800	49	05	05.....	Volume 2 - 309
F-15	F0150P	69	07	02.....	Volume 1 - 223
F-15	F01500	21	05	02.....	Volume 2 - 77
F-16	F0160P	70	07	02.....	Volume 1 - 227
F-16	F01600	22	05	02.....	Volume 2 - 85
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Line Item Title	Line Item Number	Line #	BA	BSA	Page
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F-35	ATA000	1	01	03.....	Volume 1 - 1
F-35, Advance Procurement	ATA000	2	01	03.....	Volume 1 - 23
F-35 Modifications	F03500	24	05	02.....	Volume 2 - 119
Family of Beyond Line-of-Sight Terminals	FBLOST	51	05	05.....	Volume 2 - 323
GLIDER Mods	GLID00	33	05	04.....	Volume 2 - 183
H-1	H00100	52	05	05.....	Volume 2 - 325
H-60	H06000	54	05	05.....	Volume 2 - 329
HC-130J	C130JH	6	02	03.....	Volume 1 - 55
HC-130J, Advance Procurement	C130JH	7	02	03.....	Volume 1 - 67
HC/MC-130 Modifications	HCMC00	56	05	05.....	Volume 2 - 369
Increment 3.2b	F2232B	25	05	02.....	Volume 2 - 133
Increment 3.2b, Advance Procurement	F2232B	26	05	02.....	Volume 2 - 139
Industrial Responsiveness	75	75	07	03.....	Volume 1 - 253
Initial Spares/Repair Parts	000999	61	06	10.....	Volume 1 - 163
KC-10A (ATCA)	C01000	38	05	05.....	Volume 2 - 217
KC-46A Tanker	KC046A	3	02	02.....	Volume 1 - 27
Large Aircraft Infrared Countermeasures	LAIRCM	19	05	01.....	Volume 2 - 43
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Air Force • President's Budget Submission FY 2017 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
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MQ-9	PRDTB1	15	04	05.....	Volume 1 - 147
MQ-9	PRDTB1	73	07	02.....	Volume 1 - 239
MQ-9 MODS	PRDTB2	59	05	05.....	Volume 2 - 399
Other Aircraft	OTHACF	72	07	02.....	Volume 1 - 235
Other Aircraft	OTHACF	57	05	05.....	Volume 2 - 381
Other Production Charges	0000751	77	07	05.....	Volume 1 - 263
RC-135	DARP01	46	05	05.....	Volume 2 - 279
RQ-4	HAEUAV	14	04	05.....	Volume 1 - 131
RQ-4 MODS	HAWK00	55	05	05.....	Volume 2 - 351
RQ-4 Post Production Charges	RQ4DIS	74	07	02.....	Volume 1 - 241
T-1	T00100	35	05	04.....	Volume 2 - 191
T-38	T03800	36	05	04.....	Volume 2 - 197
T-6	JPAT00	34	05	04.....	Volume 2 - 185
Target Drones	10TRGT	13	04	05.....	Volume 1 - 113
U-2 Mods	11U200	37	05	05.....	Volume 2 - 211
UH-1N Replacement	H0106O	10	04	01.....	Volume 1 - 87
UH-1N Replacement	H0106O	53	05	05.....	Volume 2 - 327
VC-25A Mod	C02500	40	05	05.....	Volume 2 - 221
War Consumables	76	76	07	04.....	Volume 1 - 257

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Air Force • President's Budget Submission FY 2017 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Lookup Matrix by Model

Model:	B-2	
Modification P-40a Aggregated Items Title:	B-2A	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
110026	EHF SATCOM and Computers	No
110032	LINK 16/CID/IFR	No
110043	B-2 Adaptable Communications Suite (ACS)	No
110044	B-2 Defensive Management System (DMS)	No
110051	LOSSM - Structures	No
110052	110052 LOSSM - Materials	No
110053	LOSSM - Diagnostics	No
110056	B61-12 Integration	No
110058	EHF SATCOM	No
99999U	B-2 Low Cost Engine Modifications	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
110031	B-2 Trainer System Upgrade	No
110035	LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS	No
110054	B-2 Flex Strike Phase 1	No
110057	MGUE	No
8882	Common Very Low Frequency Terminal	No

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Air Force • President's Budget Submission FY 2017 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Model:	B-1B		
Modification P-40a Aggregated Items Title:	B-1B		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
4281	Self Contained Attitude Indicator	No	
4285	Gyro Stabilization System (GSS)	No	
4286	Inertial Navigation System (INS)	No	
4291	B-1 TRAINING SUPPORT	No	
6882	Digital Communications	No	
8411	RADAR IMPROVEMENT UPGRADE	No	
8423	B-1 Link 16 Crypto	No	
92294	LAPTOP CONTROLLED TARGETING POD	No	
92298	B-1 Modified Antenna Select	No	
99999X	Low Cost Modifications	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
4280	Fully Integrated Data Links	No	
4284	CITS UPGRADE	No	
8971	VERTICAL SITUATION DISPLAYS	No	

Model:	B1-B		
Modification P-40a Aggregated Items Title:	B-1B		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			

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Air Force • President's Budget Submission FY 2017 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Model:	B1-B		
Modification P-40a Aggregated Items Title:	B-1B		
Item Number	Item Title	Applies to Multiple Models	
92299	F101 Engine SLEP	No	

Model:	B-1		
Modification P-40a Aggregated Items Title:	B-1B		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
92314	MIDS-JTRS	No	
92315	Integrated Targeting Pod/Computer	No	
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8672	Sniper CMDL Backback Kits and Datalogger Purchase	Yes	
8674	ATP upgrade Legacy to SE	Yes	
8675	ATP-SE Technology Insertion	Yes	
99999F	LOW COST MODIFICATIONS - TARGETING PODS	Yes	

Model:	B-52H		
Modification P-40a Aggregated Items Title:	B-52		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
3265	B-52 Anti-Skid Replacement	No	
6884	B-52 Internal Weapons Bay Upgrade	No	

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

Model:	B-52H	
Modification P-40a Aggregated Items Title:	B-52	
Item Number	Item Title	Applies to Multiple Models
6885	AETC Trainers (B-52)	No
6888	B-52 New Start Treaty	No
6889	B-52 Link-16	No
6890	B-52 Radar Modernization	No
6893	GPS-IU Replacement	No
6894	B-52 Crypto Modernization	No
9709	B-52 Mode S/5	No
99999X	B-52 Low Cost Mods	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
3310	B-52 Combat Network Communications Technology	No

Model:	B-52	
Modification P-40a Aggregated Items Title:	B-52	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
6891	B-52 WST AR Upgrade Trainer	No
6892	B-52 Low Cost Improvements	No
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8672	Sniper CMDL Backback Kits and Datalogger Purchase	Yes

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Air Force • President's Budget Submission FY 2017 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Model:	B-52		
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
8674	ATP upgrade Legacy to SE	Yes	
8675	ATP-SE Technology Insertion	Yes	
99999F	LOW COST MODIFICATIONS - TARGETING PODS	Yes	

Model:	MC-130J		
Modification P-40a Aggregated Items Title:	Large Aircraft Infrared Countermeasures		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8629HMC130	LARGE AIRCRAFT INFRARED COUNTERMEASURES HC/MC-130 Recap	Yes	
Modification P-40a Aggregated Items Title:	HC/MC-130 Modifications		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
5222	HC/MC-130J Block 8.1	Yes	
8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	Yes	
99999X	Low Cost Modifications	Yes	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
8632	MC-130J Increment 2	No	

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

Model:	HC-130J	
Modification P-40a Aggregated Items Title:	Large Aircraft Infrared Countermeasures	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8629HMC130	LARGE AIRCRAFT INFRARED COUNTERMEASURES HC/MC-130 Recap	Yes
Modification P-40a Aggregated Items Title:	HC/MC-130 Modifications	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
5222	HC/MC-130J Block 8.1	Yes
8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	Yes
8634	HC-130J Common Configuration	No
8635	HC-130J Personnel Locator System	No
8637	HC-130J Video Data Link	No
8638	HC-130J Variable Speed Drogue	No
8639	HC-130J Wireless Intercom	No
99999X	Low Cost Modifications	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8636	HC-130J Situational Awareness	No
8640	HC-130J Countermeasures Dispenser System Rapid Dispense	No

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

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Air Force • President's Budget Submission FY 2017 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Model:	C-130		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
3773	C-130 8-Bladed Propeller Upgrade	No	
8515	Electronic Propeller Control System (EPCS)	No	
8562	C-130 GENERATOR DISCONNECT INSTALLATION WR-98-004	Yes	
8579	Mode S & 8.33 MHz Upgrades	No	
8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	Yes	
9134	NOISE CANCELLATION SYSTEM	No	
9139	MOD V IFF	No	
9142	Tactics/Threat Generation System	No	
9147	ENGINE OIL COOLER	No	
92301	AFR C-130 Fuselage Trainer Modification	No	
92308	T-56 3.5 Engine Mod	No	
92311	Electronic Propeller Control System (EPCS)	No	
92312	In-Flight Propeller Balancing System (IPBS)	No	
99999A	LOW COST SAFETY MODIFICATIONS	No	
99999M	MISC SIMULATOR UPDATES	No	
99999S	SERVICE BULLETINS	No	
99999X	Low Cost Modifications	No	
GW111	ELT UPGRADE	Yes	
SCOUT	ANG SENIOR SCOUT	No	

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

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

Model:	C-17	
Modification P-40a Aggregated Items Title:	C-17A	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
_2590	ELT Frequency Change	No
_2633	MFOQA	No
_3080	Replacement Heads Up Display (RHUD)	No
_359	C-17 Sim Threat Generator	No
_8962	Block 13 to 17 Retrofit	No
0399	AIRLIFT DEFENSIVE SYSTEMS-COUNTERMEASURES	No
2901	NEXT GEN CNS/ATM	No
6402	OBIGGS II	No
6403	OBIGGS II Filter Fire Mitigation (2.1)	No
6412	Extended Range Retrofit/OBIGGS II	No
8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	No

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Model:	C-17		
Modification P-40a Aggregated Items Title:	C-17A		
Item Number	Item Title	Applies to Multiple Models	
9151	Mobility Air Force Dynamic Retasking Capability (MAF DRC)	No	
9739	ILS Identification and Flight Control Computer Updates	No	
9740	Fixed Installation Satellite Antenna (FISA 2)	No	
99999X	Low Cost Modifications	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
3	LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17	No	
2000	Pylon Stub FFLZ, FF, Translating Fairing	No	
1508	IFF GATM Mode 5	No	

Model:	C-5B		
Modification P-40a Aggregated Items Title:	C-5		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
6154	C-5 RELIABILITY ENHANCEMENT & REENGINEING PROGRAM (RERP)	Yes	
8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	Yes	
8965	C-5 Fleet Blk Upgrade 01	Yes	
99999X	Low Cost Mods	Yes	
Modification P-40a Aggregated Items Title:	C-5M		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
6154	C-5 Reliability Enhancment and Re-Engining Program	Yes	

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Model:	C-5B	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
4	LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5	Yes

Model:	C-5C	
Modification P-40a Aggregated Items Title:	C-5	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
6032	COMPARTMENT FLOOR CORROSION PREVENTION	Yes
6154	C-5 RELIABILITY ENHANCEMENT & REENGINEING PROGRAM (RERP)	Yes
8869	Defensive System Installation	Yes
8965	C-5 Fleet Blk Upgrade 01	Yes
99999X	Low Cost Mods	Yes
Modification P-40a Aggregated Items Title:	C-5M	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
6154	C-5 Reliability Enhancment and Re-Engining Program	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
4	LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5	Yes

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Model:	C-5M	
Modification P-40a Aggregated Items Title:	C-5	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
6032	COMPARTMENT FLOOR CORROSION PREVENTION	Yes
8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	Yes
8965	C-5 Fleet Blk Upgrade 01	Yes
8966	C-5 Mission Systems Equipment- Lavatory	No
8968	Mode 5 Swift Broadband BLOS/LOS Radio	No
99999X	Low Cost Mods	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
4	LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5	Yes
8967	Mission Computer and Weather Radar	No

Model:	A-10	
Modification P-40a Aggregated Items Title:	A-10	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
7856	MODE S/5	No
9804	A-10 Wing Replacement Program	No
9806	A-10 Helmet Mounted Cueing System	No
9808	Covert/Overt Landing Light Requirement (COLA)	No
99999X	Low Cost Modifications	No

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Model:	A-10		
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8672	Sniper CMDL Backback Kits and Datalogger Purchase	Yes	
8674	ATP upgrade Legacy to SE	Yes	
8675	ATP-SE Technology Insertion	Yes	
99999F	LOW COST MODIFICATIONS - TARGETING PODS	Yes	
CMWS	COMMON MISSILE WARNING SYSTEM	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
9809	LARS-V12/C SEL	No	

Model:	F-15E		
Modification P-40a Aggregated Items Title:	F-15		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
_1202B	Advanced Display Core Processor, ADCP II-E	No	
1210	F-15E Flight Data Recorder (FDR)	No	
8353	F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM	No	
8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	No	
8755	E IFF MODE 5	Yes	
8756	Link 16 Cryptographic Modernization (CMI)	Yes	
8800	F-15E MIDS JTRS	No	
8804	F-15 F-15 E/MUOS	No	

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Model:	F-15E	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
99999U	LOW COST RETROFIT MODS	No
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8674	ATP upgrade Legacy to SE	Yes
8675	ATP-SE Technology Insertion	Yes
99999F	LOW COST MODIFICATIONS - TARGETING PODS	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1202	F-15E Radar Modernization Program APG-82(V)1	No

Model:	F-15C	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1203	C/D Secondary Power System	Yes
1205	:Advanced Display Core Processor, ADCP II-C	Yes
1206	IRST	Yes
1209	C/D Flight Data Recorder (FDR)	Yes
6158	F-15C/D APG-63(V)3 radar upgrade	Yes
8703	F-15 A/D DIGITAL VIDEO RECORDER	Yes
8755	E IFF MODE 5	Yes

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Model:	F-15C		
Modification P-40a Aggregated Items Title:	F-15		
Item Number	Item Title	Applies to Multiple Models	
8756	Link 16 Cryptographic Modernization (CMI)	Yes	
8794	F-15C/D Beyond Line Of Sight Communications	No	
8797	F-15C Passive Attack Sensor System	No	
8798	5th to 4th Gen Gateway	Yes	
8799	F-15C MIDS JTRS	No	
8801	F-15 C/D SLEP Longerons	Yes	
8803	F-15 C/D/MUOS	No	
8805	F-15 C/D SLEP Wings	Yes	
99999X	Low Cost Modifications	Yes	
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8674	ATP upgrade Legacy to SE	Yes	
8675	ATP-SE Technology Insertion	Yes	

Model:	F-15D		
Modification P-40a Aggregated Items Title:	F-15		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
1203	C/D Secondary Power System	Yes	
1205	:Advanced Display Core Processor, ADCP II-C	Yes	
1206	IRST	Yes	

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Model:	F-15D		
Modification P-40a Aggregated Items Title:	F-15		
Item Number	Item Title	Applies to Multiple Models	
1209	C/D Flight Data Recorder (FDR)	Yes	
6158	F-15C/D APG-63(V)3 radar upgrade	Yes	
8703	F-15 A/D DIGITAL VIDEO RECORDER	Yes	
8755	E IFF MODE 5	Yes	
8756	Link 16 Cryptographic Modernization (CMI)	Yes	
8798	5th to 4th Gen Gateway	Yes	
8801	F-15 C/D SLEP Longerons	Yes	
8805	F-15 C/D SLEP Wings	Yes	
99999X	Low Cost Modifications	Yes	

Model:	F-15A		
Modification P-40a Aggregated Items Title:	F-15		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8703	F-15 A/D DIGITAL VIDEO RECORDER	Yes	
99999X	Low Cost Modifications	Yes	

Model:	F-15B		
Modification P-40a Aggregated Items Title:	F-15		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8703	F-15 A/D DIGITAL VIDEO RECORDER	Yes	

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

Model:	F-16		
Modification P-40a Aggregated Items Title:	F-16		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
602148	MMC and Display Generator Upgrade	No	
6023	FALCON STAR	No	
618250	Comm Suite Upgrade (Pre-Block)	No	
618251	Comm Suite Upgrade (Post-Block)	No	
618270	DIGITAL FLIGHT CONTROL COMPUTER	No	
624050	ADVANCED DATA TRANSFER EQUIPMENT	No	
704050	Digital Radar Warning Receiver (RWR)	No	
8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	No	
866250	F-16 TRAINING SYSTEMS	No	
99999X	Low Cost Modifications	No	
F19427	F-110 Engine Fire Seal Mod	No	
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8669	Full Combat Mission Training	No	
8672	Sniper CMDL Backback Kits and Datalogger Purchase	Yes	

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Model:	F-16		
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
8674	ATP upgrade Legacy to SE	Yes	
8675	ATP-SE Technology Insertion	Yes	
8729	Theatre Airborne Reconnaissance System (TARS)	No	
99999F	LOW COST MODIFICATIONS - TARGETING PODS	Yes	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
602600	F-16 LEGACY STRUCTURAL SLEP	No	
633030	Aggressors Update	No	
661652	Link 16 Crypto	No	
661653	MIDS-JTRS	No	
694050	HLD AESA Radar JUON	No	

Model:	F-22		
Modification P-40a Aggregated Items Title:	F-22A		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
F22001	COMMON CONFIGURATION	No	
F22003	INCREMENT 3.1	No	
F22007	Helmet Mounted Display and Cueing System (HMDCS)	No	
F22024	Trainers Modernization	No	
F22027	Crypto Modernization	No	
F22030	Tactical Mandates	No	

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Model:	F-22	
Modification P-40a Aggregated Items Title:	F-22A	
Item Number	Item Title	Applies to Multiple Models
F22033	Sensor Enhancement	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	Reliability and Maintainability Maturation Program	No
2	F119 Engine Modifications	No
3	Structures Retrofit Plan	No
11100	INCREMENT 3.2B	No

Model:	F-35A	
Modification P-40a Aggregated Items Title:	F-35 Modifications	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
F3512	Block 2B OT Upgrade	No
F3514	Block 3F LRIP 2-5 Upgrade	No
F3515	Block 3F LRIP 6-8 Upgrade	No
F3517	Correction of Deficiencies	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	Block 3i LRIP 2-5 Upgrade	No
2	Concurrency	No

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Model:	C-5A		
Modification P-40a Aggregated Items Title:	C-5		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
6032	COMPARTMENT FLOOR CORROSION PREVENTION	Yes	
8869	Defensive System Installation	Yes	

Model:	C-21A		
Modification P-40a Aggregated Items Title:	C-21		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
99999S	SERVICE BULLETINS	No	
99999X	Low Cost Modifications	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
1100	Avionics Upgrades and FAA Mandates	No	

Model:	C-32A		
Modification P-40a Aggregated Items Title:	C-32A		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
1110	Nitrogen Generation System	No	
1117	CNS/ATM Compliance	No	
99999S	SERVICE BULLETINS	No	
99999X	Low Cost Modifications	No	

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Model:	C-32A	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1116	WIDEBAND SATCOM	No

Model:	C-32B	
Modification P-40a Aggregated Items Title:	C-32A	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
99999SG	99999SG - Service Bulletins - C-32B	No
99999XG	99999XG - Low Cost Mods - C-32B	No

Model:	C-37A	
Modification P-40a Aggregated Items Title:	C-37A	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1117	WIDEBAND SATCOM	Yes
99999S	SERVICE BULLETINS	Yes

Model:	C-37B	
Modification P-40a Aggregated Items Title:	C-37A	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1117	WIDEBAND SATCOM	Yes
99999S	SERVICE BULLETINS	Yes

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Model:	C-37		
Modification P-40a Aggregated Items Title:	C-37A		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
1118	CNS/ATM Compliance	No	

Model:	C-37A; C-37B		
Modification P-40a Aggregated Items Title:	C-37A		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
99999X	Low Cost Modifications	No	

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

Model:	TG-16		
Modification P-40a Aggregated Items Title:	GLIDER Mods		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
99999X	Low Cost Modifications	Yes	

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Model:	UV-18		
Modification P-40a Aggregated Items Title:	GLIDER Mods		
Item Number	Item Title		Applies to Multiple Models
Uncategorized			
99999X	Low Cost Modifications		Yes

Model:	T-41		
Modification P-40a Aggregated Items Title:	GLIDER Mods		
Item Number	Item Title		Applies to Multiple Models
Uncategorized			
99999X	Low Cost Modifications		Yes

Model:	T-51		
Modification P-40a Aggregated Items Title:	GLIDER Mods		
Item Number	Item Title		Applies to Multiple Models
Uncategorized			
99999X	Low Cost Modifications		Yes

Model:	T-53		
Modification P-40a Aggregated Items Title:	GLIDER Mods		
Item Number	Item Title		Applies to Multiple Models
Uncategorized			
99999X	Low Cost Modifications		Yes

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Model:	T-6A	
Modification P-40a Aggregated Items Title:	T-6	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
37222	Landing Gear Shimmy	No
37224	Power Control Lever	No
37225	OBOGS Low Pressure Switch and Concentrator	No
37226	Landing Gear Door Spring Housing, Bellcrank & Pushrods	No
37227	IDARS-MFOQA	No
37229	ATD Visual System Retrofit	No
9847	Avionics Obsolesence	No
9857	Traffic Advisory System	No
9871	COCKPIT UPGRADES	No
9873	Canopy Fracture Initiation System	No
9875	LANDING GEAR HANDLE REDESIGN	No
9876	AIRFRAME STRUCTURAL IMPROVEMENTS	No
9877	Avionics Upgrades FAA Compliance	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
9878	Aircrew Training Device (ATD) Modernization	No

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Model:	T-1A	
Modification P-40a Aggregated Items Title:	T-1	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8996	COMBAT SYSTEMS OFFICER (CSO) TRAINING	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8997	Avionics Modification	No

Model:	T-38	
Modification P-40a Aggregated Items Title:	T-38	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
6087	T-38 ESCAPE SYSTEM UPGRADE	No
6089	VDTS/SBIS	No
99999A	LOW COST SAFETY MODIFICATIONS	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
6088	Pacer Classic III	No
6090	T-38C Avionics Post Production Support (APPS)	No

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

Model:	KC-10	
Modification P-40a Aggregated Items Title:	KC-10A (ATCA)	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
7726	CNS/ATM	No
7727	Boom Control Unit (BCU)	No
7729	Visual System Replacement (VSR)	No
7730	UHF SATCOM Antenna	No
9709	GATM Phase II	No
99999A	LOW COST SAFETY MODIFICATIONS	No
99999S	SERVICE BULLETINS	No
99999X	Low Cost Modifications	No
SIM-10	SIMULATOR UPGRADE (KC-10)	No

Model:	C-12	
Modification P-40a Aggregated Items Title:	C-12	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
99999S	SERVICE BULLETINS	No

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Model:	C-12		
Modification P-40a Aggregated Items Title:	C-12		
Item Number	Item Title	Applies to Multiple Models	
99999X	Low Cost Modifications	No	

Model:	VC-25A		
Modification P-40a Aggregated Items Title:	VC-25A Mod		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
9711	C-25 Avionics Modernization Program	No	
9713	Nitrogen Generation System	No	
9714	WIDEBAND SATCOM	No	
99999S	SERVICE BULLETINS	No	
99999X	Low Cost Modifications	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
9715	VC-25 Block Upgrade	No	

Model:	C-40B		
Modification P-40a Aggregated Items Title:	C-40		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
1110	Nitrogen Generation System	Yes	
99999S	SERVICE BULLETINS	Yes	
99999X	Low Cost Modifications	Yes	

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Model:	C-40B	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1118	WIDEBAND SATCOM	Yes

Model:	C-40C	
Modification P-40a Aggregated Items Title:	C-40	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1110	Nitrogen Generation System	Yes
99999S	SERVICE BULLETINS	Yes
99999X	Low Cost Modifications	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1118	WIDEBAND SATCOM	Yes

Model:	C-40	
Modification P-40a Aggregated Items Title:	C-40	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1119	CNS/ATM Compliance	No

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Model:	C-130H	
Modification P-40a Aggregated Items Title:	C-130	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
11130	PODDED RECONNAISSANCE SYSTEM	No
17605B	AUTOPILOT/GCAS	Yes
18600B	ELECTRICAL SYSTEM UPGRADE	Yes
6040	ENGINES	No
8220	ALR-69 (RWR)	Yes
8455	INSTALLATION OF AN/APN-241	Yes
8517	C-130 AVIONICS MODERNIZATION PROGRAM (AMP)	No
8518	C-130H Avionics Modernization Program (AMP) Increment 2	No
8526	ENHANCED TCAS (TCAS II)	Yes
8561	SYNCHROPHASER WIRE (C-130)	Yes
9146	Armor Plate	No
9148	Square Window Troop Door	No
9149	C-130 Aux Hyd Pump	Yes
9150	Real Time Information in the Cockpit (RTIC) Kits	No
92302	C-130H Avionics Modernization Program (AMP) Increment 1	No
92302A	8.33 kHz Radios--C-130H Avionics Modernization Program (AMP) Increment 1	No
92302B	CVR/DFDR--C-130H Avionics Modernization Program (AMP) Increment 1	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes

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Model:	C-130E		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
17605B	AUTOPILOT/GCAS	Yes	
18600B	ELECTRICAL SYSTEM UPGRADE	Yes	
8220	ALR-69 (RWR)	Yes	
8526	ENHANCED TCAS (TCAS II)	Yes	
8561	SYNCHROPHASER WIRE (C-130)	Yes	

Model:	C-130N		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
17605B	AUTOPILOT/GCAS	Yes	
18600B	ELECTRICAL SYSTEM UPGRADE	Yes	

Model:	C-130P		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
17605B	AUTOPILOT/GCAS	Yes	
18600B	ELECTRICAL SYSTEM UPGRADE	Yes	

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Model:	C-130U		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
17605B	AUTOPILOT/GCAS	Yes	
18600B	ELECTRICAL SYSTEM UPGRADE	Yes	

Model:	HC-130N		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8385	AN/AAQ-22M (FLIR)	Yes	
8526	ENHANCED TCAS (TCAS II)	Yes	
GW111	ELT UPGRADE	Yes	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	

Model:	HC-130P		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8385	AN/AAQ-22M (FLIR)	Yes	
8455	INSTALLATION OF AN/APN-241	Yes	
8526	ENHANCED TCAS (TCAS II)	Yes	

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Model:	HC-130P		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
GW111	ELT UPGRADE	Yes	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	

Model:	LC-130H		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8455	INSTALLATION OF AN/APN-241	Yes	
8526	ENHANCED TCAS (TCAS II)	Yes	

Model:	EC-130H		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8455	INSTALLATION OF AN/APN-241	Yes	
8526	ENHANCED TCAS (TCAS II)	Yes	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	
1001	COMPASS CALL	Yes	

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Model:	EC-130H	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1003	COMPASS CALL Baseline 3	Yes

Model:	MC-130H	
Modification P-40a Aggregated Items Title:	C-130	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8526	ENHANCED TCAS (TCAS II)	Yes
9135	AC-130 OUTER WING REPLACEMENT	Yes
9149	C-130 Aux Hyd Pump	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes

Model:	MC-130P	
Modification P-40a Aggregated Items Title:	C-130	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8526	ENHANCED TCAS (TCAS II)	Yes
9137	HC-130 8.33 RADIOS	Yes

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Model:	AC-130U		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8526	ENHANCED TCAS (TCAS II)	Yes	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	

Model:	AC-130H		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8526	ENHANCED TCAS (TCAS II)	Yes	
9135	AC-130 OUTER WING REPLACEMENT	Yes	

Model:	MC-130E		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8526	ENHANCED TCAS (TCAS II)	Yes	

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Model:	EC-130E		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8562	C-130 GENERATOR DISCONNECT INSTALLATION WR-98-004	Yes	

Model:	MC-130		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8577	ALE-47 CHAFF AND FLARE DISPENSER	Yes	
9143	MC Combined CARA/ETCAS	No	

Model:	AC-130		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8577	ALE-47 CHAFF AND FLARE DISPENSER	Yes	
8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	Yes	

Model:	SOF C-130		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8591	ALR-69 UPGRADE	No	

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Model:	HC-130	
Modification P-40a Aggregated Items Title:	C-130	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8630	HC-130P/N Personal Locator System	No
8631	HC-130 Integrated Electronic Warfare (EW) Suite	No
8651	AAR-47 Sensor Upgrade	No
9140	C-130 DUAL RAILS	Yes
9141	C-130 CRASHWORTHY LOADMASTER SEAT	No
92303	HC-130 Crashworthy Seats	No
92304	HC-130 T-1 Mods	No
92307	HC-130 SABIR	No
92310	HC-130P/N Variable Speed Drogue (VSD)	No
99999C	HC-130 Low Cost Mods	No

Model:	MC-130W	
Modification P-40a Aggregated Items Title:	C-130	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
9135	AC-130 OUTER WING REPLACEMENT	Yes
9145	Blue Force Tracker	No
9149	C-130 Aux Hyd Pump	Yes

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Model:	HC-130P/N		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
9137	HC-130 8.33 RADIOS	Yes	

Model:	WC-130H		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
9140	C-130 DUAL RAILS	Yes	

Model:	AC-130W		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
92305	AC-130W Radar Pods	No	
92306	AC-130W Hellfire Capability	No	

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

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Model:	C-130J	
Modification P-40a Aggregated Items Title:	C-130J Mods	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
_1680	C-130J Tactics Training	No
_2612	Avionics System and Structural Modifications	No
_5296	Wind Gust Brake	No
_6298	C-130J BLOCK 7.0 UPGRADES	No
8629	LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	No
8647	Dynamic Retasking Capability	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
5222	BLOCK 8.1	No
8646	C-130J Center Wing Replacement	No

Model:	C-135	
Modification P-40a Aggregated Items Title:	C-135	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
17403B	STANDARD FLIGHT DATA RECORDER	Yes
3009E	C-135 REENGINE	Yes
3149F	FLIGHT DATA RECORDER & COCKPIT VOICE RECORDER	Yes
3150PC	PACER CRAG (COMPASS, RADAR, AND GPS)	Yes
8654	ENHANCED MODE S	Yes

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Model:	C-135	
Modification P-40a Aggregated Items Title:	C-135	
Item Number	Item Title	Applies to Multiple Models
9709	GATM Phase II	Yes
9738	CONTROL COLUMN ACTUATOR BRAKE (CCAB)	Yes
9814	BOWST	Yes
9817	MODE 5	Yes
9820	APU Oil Cooler	No

Model:	KC-135	
Modification P-40a Aggregated Items Title:	C-135	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
17403B	STANDARD FLIGHT DATA RECORDER	Yes
3009E	C-135 REENGINE	Yes
3149F	FLIGHT DATA RECORDER & COCKPIT VOICE RECORDER	Yes
3150PC	PACER CRAG (COMPASS, RADAR, AND GPS)	Yes
8654	ENHANCED MODE S	Yes
9709	GATM Phase II	Yes
9738	CONTROL COLUMN ACTUATOR BRAKE (CCAB)	Yes
9814	BOWST	Yes
9817	MODE 5	Yes
9818	VOR/ILS ANTENNAE	No
9819	Visual System Replacement (VSR)	No
9824	ADS-B	No

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Model:	KC-135	
Modification P-40a Aggregated Items Title:	C-135	
Item Number	Item Title	Applies to Multiple Models
99999A	LOW COST SAFETY MODIFICATIONS	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8653	BLOCK 45	No
9826	Rudder Position Indicator (RPI)	No
8670	MAF Training	Yes

Model:	NEC-130H	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1001	COMPASS CALL	Yes
1003	COMPASS CALL Baseline 3	Yes

Model:	TC-130H	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1001	COMPASS CALL	Yes

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

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

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

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

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

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Model:	E-3		
Modification P-40a Aggregated Items Title:	E-3		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
50001P	TSI	No	
50001T	BLOCK 40/45 UPGRADE	No	
50002	Communications Networking Upgrade (CNU)	No	
7225	NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF)	No	
8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	No	
9707	RM&A Mod	No	
9708	Virtual Warfare Center	No	
9716	VERTICAL STABILIZER AND RUDDER	No	
9717	ELECTRONIC PROTECTION	No	
9719	Combat ID Diminishing Manufacturing Sources	No	
99999XA	LOW COST MOD - AIRFRAME	No	
99999XB	LOW COST MOD - AVIONICS & MISSION SYSTEMS	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
9718	IP-enabled Capability (IPEC)	No	
1	BLOCK 40/45 BLOCK UPGRADE	No	

Model:	E-3B		
Modification P-40a Aggregated Items Title:	E-3		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			

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Model:	E-3B	
Modification P-40a Aggregated Items Title:	E-3	
Item Number	Item Title	Applies to Multiple Models
7267	NAVWAR	Yes
7268	INTEGRATED DAMA GATM	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
9709	E-3 DRAGON	Yes

Model:	E-3C	
Modification P-40a Aggregated Items Title:	E-3	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
7267	NAVWAR	Yes
7268	INTEGRATED DAMA GATM	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
9709	E-3 DRAGON	Yes

Model:	E-4B	
Modification P-40a Aggregated Items Title:	E-4	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
3410	NPES (NC2AIS) E-4B	No
4406A	SHF Modernization	No

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Model:	E-4B	
Modification P-40a Aggregated Items Title:	E-4	
Item Number	Item Title	Applies to Multiple Models
4406B	AEHF Compatible Terminal/PNVC	No
4407	AIU Modernization	No
9709D	E-4B COMMUNICATION NAVIGATION SURVEILLANCE/AIR TRAFFIC MANAGEMENT I	No
9709F	CNS/ATM(ADS-B OUT)	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
4409	Low Frequency Transmit System (LFTS)	No
1	SERVICE BULLETINS	No

Model:	E-4	
Modification P-40a Aggregated Items Title:	E-4	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
99999X	Low Cost Modifications	No
Modification P-40a Aggregated Items Title:	Family of Beyond Line-of-Sight Terminals	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
FBLOST - 01	Family of Beyond Line-of-Sight Terminals	Yes

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Model:	E-8C	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
38198	Prime Mission Equipment - Diminishing Manufacturing Sources	No

Model:	E-6	
Modification P-40a Aggregated Items Title:	Family of Beyond Line-of-Sight Terminals	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
FBLOST - 01	Family of Beyond Line-of-Sight Terminals	Yes

Model:	UH-1N	
Modification P-40a Aggregated Items Title:	H-1	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
_1135	UH-1N SIMULATOR UPGRADE	No
3149T	TRAFFIC ALERT & COLLISION AVOIDANCE SYSTEM	No
8847	UH-1N Safety Modifications	No
8848	AETC FLIR	No
8849	USMC Missionization	No
8850	Simulator Concurrency	No
99999X	Low Cost Modifications	Yes

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Model:	UH-1H		
Modification P-40a Aggregated Items Title:	H-1		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
_2802	HUEY II MODERNIZATION	Yes	
99999X	Low Cost Modifications	Yes	

Model:	TH-1H		
Modification P-40a Aggregated Items Title:	H-1		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
_2802	HUEY II MODERNIZATION	Yes	
8860	Automatic Dependent Surveillance - Broadcast	No	
99999X	Low Cost Modifications	Yes	

Model:	UH-1N-Replacement		
Modification P-40a Aggregated Items Title:	UH-1N Replacement		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8910	UH-1N Replacement	No	

Model:	HH-60G		
Modification P-40a Aggregated Items Title:	H-60		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			

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Model:	HH-60G	
Modification P-40a Aggregated Items Title:	H-60	
Item Number	Item Title	Applies to Multiple Models
8254	ALTITUDE HOLD AND HOVER SYSTEM (AHHS)	No
8560	SERVICE LIFE EXTENSION PROGRAM	No
8563	LIGHTWEIGHT AIRBORNE RECOVERY SYSTEM V12 UPGRADE	No
8564	Control Display Unit (CDU)	No
8565	Navigation System Upgrade (NSU)	No
8840	Vibration Monitoring System (VMS)	No
8841	Situation Awareness Data-Link	No
8844	Multi-function Color Display	No
8852	CSAR Avionics/Electrical Upgrade	No
8853	DEFENSIVE SYSTEM UPGRADE	No
8855	Ballistic Protection Enhancement	No
8856	Block 162	No
8857	Rotor Brake	No
99999S	SERVICE BULLETINS	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8850	MODE 5	No
8851	Gun Replacement	No
8854	HH-60 OLR Mission Modifications	No
8859	DVE Sensor	No

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Model:	HH-60 Sim	
Modification P-40a Aggregated Items Title:	H-60	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8496	KIRTLAND SIM UPGRADES	No

Model:	RQ-4	
Modification P-40a Aggregated Items Title:	RQ-4 MODS	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
470001	GH Aircraft Mods	No
470003	GH Ground Station Mods	No
470009	ASIP Increment I	No
470010	SAR Complex Imagery	No
470011	ASIP Install/Calibration	No
470012	MODE 5/ADS-B	No
470014	R&M Enhancements	No
470015	Ice Protection System	No
470016	ADC/JPEG 2000	No
470018	CSMP	No
470020	EERU Enhancements	No
470021	ASIP Increment II	No
99999X	Low Cost Modifications	No

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Model:	RQ-4	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
470008	Enhanced Weather Capability	No
470013	Sensor Enhancements	No
470019	Communication Interoperability/Enhancements	No

Model:	AC-130J	
Modification P-40a Aggregated Items Title:	HC/MC-130 Modifications	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
5222	HC/MC-130J Block 8.1	Yes

Model:	HH-60	
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1000	COMBAT AIR FORCES RESCUE MSN TRNG	No

Model:	RC-26	
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
2002	ANG RC-26	No

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Model:	MULTI		
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
4501	EHF SATCOM	No	
8728	DEPOT MAINTENANCE (NON-IF)	No	
99999A	LOW COST SAFETY MODIFICATIONS	No	
99999X	Low Cost Modifications	No	
T8137	UHF SATCOM UPGRADE	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
8733	Battlefield ABN Comm Node (BACN)	No	

Model:	F-15		
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8672	Sniper CMDL Backback Kits and Datalogger Purchase	Yes	

Model:	MH-53		
Modification P-40a Aggregated Items Title:	Other Aircraft		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8727	MH-53 IFF APX-118	No	

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Model:	Multiple	
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
9860A	JOINT TACTICAL RADIO SYSTEM	No

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

Model:	MH-53J	
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
99999U	LOW COST RETROFIT MODS	No

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

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Model:	C-5	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8670	MAF Training	Yes

Model:	MQ-1	
Modification P-40a Aggregated Items Title:	MQ-1 Mods	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
4445	Aircraft PPDL	No
4446	Differential GPS	No
4447	Digital Video	No
4451	VORTEX	No
4452	GCS PPDL	Yes
4453	GCS Modernization	No
4457	IP Migration	No
99999X	Low Cost Modifications	No
PRDT02	PREDATOR A/B MODIFICATIONS	No

Model:	MQ-9	
Modification P-40a Aggregated Items Title:	MQ-1 Mods	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
4452	GCS PPDL	Yes

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(Listing by Model)

Model:	MQ-9	
Modification P-40a Aggregated Items Title:	MQ-9 MODS	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8679	GCS Blk 50	No
9153	MTS-B HD	No
9161	IP Migration	No
99999B	MQ-9 Low Cost Mods	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
9151	Block 5	No
9152	MQ-9 Field	No
9154	Lynx SAR	No
9155	GCS Blk 30	No
9159	R&M enhancements	No
9164	Extended Range MQ-9	No
9167	MQ-9 Upgrade	No

Model:	CV-22	
Modification P-40a Aggregated Items Title:	CV-22 MODS	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
99999X	Low Cost Modifications	No

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Model: CV-22		
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8790	Block 20 Upgrade	No

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Funding (\$ M)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Exhibit P-40a										
EHF SATCOM and Computers	111.765	6.189	-	-	-	-	-	-	-	-
LINK 16/CID/IFR	92.446	-	0.474	0.415	-	0.415	0.295	0.247	0.201	0.206
B-2 Adaptable Communications Suite (ACS)	21.037	-	-	0.297	-	0.297	0.298	0.298	0.298	0.303
B-2 Defensive Management System (DMS)	-	-	-	-	-	-	-	49.884	280.497	365.563
LOSSM - Structures	6.507	3.044	7.158	0.000	-	0.000	0.000	0.000	0.000	0.000
110052 LOSSM - Materials	5.826	0.941	0.669	-	-	-	-	-	-	-
LOSSM - Diagnostics	0.518	2.657	0.669	-	-	-	-	-	-	-
B61-12 Integration	-	-	-	-	-	-	8.926	9.092	9.260	9.431
EHF SATCOM	-	-	-	-	-	-	-	-	-	121.026
B-2 Low Cost Engine Modifications	18.191	0.621	0.626	0.703	-	0.703	0.717	0.729	0.742	0.757
Low Cost Modifications	17.614	1.998	0.541	0.601	-	0.601	0.612	0.624	0.635	0.647
Self Contained Attitude Indicator	-	-	6.562	0.000	-	0.000	-	-	-	-
Gyro Stabilization System (GSS)	62.419	0.701	-	-	-	-	-	-	-	-
Inertial Navigation System (INS)	54.946	3.163	-	-	-	-	-	-	-	-
B-1 TRAINING SUPPORT	1.682	0.427	0.434	0.438	-	0.438	0.447	0.454	0.462	0.471
Digital Communications	38.842	0.142	0.100	-	-	-	-	-	-	-
RADAR IMPROVEMENT UPGRADE	156.917	1.230	-	-	-	-	-	-	-	-
B-1 Link 16 Crypto	-	0.223	1.011	1.380	-	1.380	0.535	0.794	-	-
LAPTOP CONTROLLED TARGETING POD	68.699	3.638	0.200	0.200	-	0.200	0.200	0.200	0.200	0.200
B-1 Modified Antenna Select	-	2.019	-	-	-	-	-	-	-	-

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Modification P-40a Item Title P-3a Modification Title	PYS	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
F101 Engine SLEP	49.000	89.860	-	-	-	-	-	-	-	-
MIDS-JTRS	-	-	-	-	-	-	13.226	2.045	8.896	47.001
Integrated Targeting Pod/Computer	-	-	-	-	-	-	6.615	2.044	4.998	0.655
Low Cost Modifications	3.982	0.990	0.100	0.100	-	0.100	0.100	0.100	0.100	0.100
B-52 Anti-Skid Replacement	0.633	17.004	0.883	0.889	-	0.889	0.908	0.924	0.940	0.957
B-52 Internal Weapons Bay Upgrade	0.360	7.486	14.472	3.691	-	3.691	29.586	21.675	-	0.669
AETC Trainers (B-52)	2.949	1.635	2.390	2.406	-	2.406	2.456	2.500	2.544	2.590
B-52 New Start Treaty	0.500	0.933	0.099	0.196	-	0.196	-	-	-	-
B-52 Link-16	-	-	-	-	-	-	-	8.630	17.268	17.772
B-52 Radar Modernization	-	-	-	-	-	-	-	-	5.855	13.105
B-52 WST AR Upgrade Trainer	-	-	-	-	-	-	1.806	-	11.085	-
B-52 Low Cost Improvements	-	-	-	0.845	-	0.845	2.374	2.381	2.431	2.482
GPS-IU Replacement	-	-	0.000	0.000	0.000	0.000	0.000	0.000	8.932	9.096
B-52 Crypto Modernization	-	-	-	-	-	-	-	14.880	17.863	21.842
B-52 Mode S/5	9.590	12.479	2.488	-	-	-	-	-	-	-
B-52 Low Cost Mods	0.454	0.590	0.436	1.925	-	1.925	0.449	0.456	0.464	0.474
LARGE AIRCRAFT INFRARED COUNTERMEASURES HC/MC-130 Recap	116.100	-	-	-	-	-	-	-	-	-
MODE S/5	5.711	-	-	-	-	-	-	-	-	-
A-10 Wing Replacement Program	812.255	-	-	1.289	-	1.289	-	-	-	-
A-10 Helmet Mounted Cueing System	33.325	-	-	-	-	-	-	-	-	-
Covert/Overt Landing Light Requirement (COLA)	-	-	-	-	0.850	0.850	-	-	-	-
Low Cost Modifications	1.427	-	-	-	-	-	-	-	-	-

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Modification P-40a Item Title P-3a Modification Title	PYS	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Advanced Display Core Processor, ADCP II-E	-	-	2.892	3.765	-	3.765	64.124	67.703	63.395	57.436
C/D Secondary Power System	6.240	0.000	-	-	-	-	-	-	-	-
:Advanced Display Core Processor, ADCP II-C	-	-	4.718	1.859	-	1.859	45.188	68.626	119.890	77.056
IRST	-	-	-	-	-	-	29.613	24.610	49.624	52.638
C/D Flight Data Recorder (FDR)	23.959	-	-	0.265	-	0.265	0.303	0.020	-	-
F-15E Flight Data Recorder (FDR)	24.610	0.000	-	1.812	-	1.812	2.421	0.027	-	-
F-15C/D APG-63(V)3 radar upgrade	835.145	232.460	332.100	0.000	-	0.000	73.296	68.877	28.255	42.421
F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM	90.953	11.771	-	-	-	-	-	-	-	-
AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	4.709	1.071	1.088	0.103	0.000	0.103	1.117	1.137	1.156	1.177
F-15 A/D DIGITAL VIDEO RECORDER	21.037	-	-	-	-	-	-	-	-	-
E IFF MODE 5	40.938	-	-	-	-	-	-	0.000	-	-
Link 16 Cryptographic Modernization (CMI)	-	0.002	2.837	0.000	-	0.000	4.424	5.032	6.617	6.739
F-15C/D Beyond Line Of Sight Communications	45.293	9.059	-	-	-	-	-	-	-	-
F-15C Passive Attack Sensor System	23.965	3.004	0.504	0.704	-	0.704	-	-	-	-
5th to 4th Gen Gateway	-	-	-	0.000	-	0.000	0.842	41.871	46.594	33.429
F-15C MIDS JTRS	-	-	0.000	0.000	-	0.000	48.600	48.600	49.600	50.169
F-15E MIDS JTRS	-	-	-	-	-	-	47.113	46.818	48.032	48.917
F-15 C/D SLEP Longerons	-	-	-	-	-	-	-	-	7.060	5.950
F-15 C/D/MUOS	-	-	-	-	-	-	-	-	5.000	5.000
F-15 F-15 E/MUOS	-	-	-	-	-	-	-	-	5.000	5.000
F-15 C/D SLEP Wings	-	-	-	-	-	-	-	-	260.940	267.050
LOW COST RETROFIT MODS	5.763	-	-	0.001	-	0.001	-	-	-	-

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Low Cost Modifications	5.759	-	-	0.001	-	0.001	-	-	-	-
MMC and Display Generator Upgrade	-	-	-	-	-	-	0.000	-	39.745	81.514
FALCON STAR	804.517	0.000	-	-	-	-	-	-	-	-
Comm Suite Upgrade (Pre-Block)	-	-	-	-	-	-	24.461	43.753	52.557	41.149
Comm Suite Upgrade (Post-Block)	-	-	-	-	-	-	-	-	48.231	-
DIGITAL FLIGHT CONTROL COMPUTER	10.533	1.000	-	-	-	-	-	-	-	-
ADVANCED DATA TRANSFER EQUIPMENT	41.304	0.000	-	-	-	-	-	-	-	-
Digital Radar Warning Receiver (RWR)	-	-	-	-	-	-	-	-	45.055	-
AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	89.492	6.053	3.305	6.996	-	6.996	5.283	5.379	5.474	5.576
F-16 TRAINING SYSTEMS	-	-	3.250	2.875	-	2.875	3.943	4.331	4.302	4.391
Low Cost Modifications	13.900	1.939	0.379	0.742	-	0.742	0.002	0.002	0.002	0.100
F-110 Engine Fire Seal Mod	2.032	0.050	-	-	-	-	-	-	-	-
COMMON CONFIGURATION	664.736	1.290	2.051	1.131	-	1.131	-	-	-	-
INCREMENT 3.1	243.257	3.180	3.335	2.877	-	2.877	0.139	-	-	-
Helmet Mounted Display and Cueing System (HMDCS)	-	-	-	-	-	-	-	-	-	1.900
Trainers Modernization	68.546	9.698	4.015	4.067	-	4.067	4.143	4.229	4.351	4.533
Crypto Modernization	3.704	-	-	-	-	-	-	11.657	8.918	-
Tactical Mandates	-	-	-	-	-	-	-	106.032	129.598	143.887
Sensor Enhancement	-	-	-	-	-	-	5.000	0.000	66.000	248.000
Block 2B OT Upgrade	11.093	0.861	-	-	-	-	-	-	-	-
Block 3F LRIP 2-5 Upgrade	-	-	6.790	0.006	-	0.006	0.540	2.005	0.250	-
Block 3F LRIP 6-8 Upgrade	-	-	-	-	-	-	0.056	-	2.800	-

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Modification P-40a Item Title P-3a Modification Title	PYS	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Correction of Deficiencies	-	-	-	-	-	-	-	-	127.221	134.544
COMPARTMENT FLOOR CORROSION PREVENTION	0.156	0.000	-	-	-	-	-	-	-	-
C-5 RELIABILITY ENHANCEMENT & REENGINEING PROGRAM (RERP)	825.155	-	-	-	-	-	-	-	-	-
LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	365.904	-	-	-	-	-	-	-	-	-
Defensive System Installation	24.175	-	-	-	-	-	-	-	-	-
C-5 Fleet Blk Upgrade 01	7.615	14.616	-	-	-	-	0.949	-	-	-
C-5 Mission Systems Equipment- Lavatory	-	0.065	2.304	3.950	-	3.950	4.688	8.689	8.902	9.300
Mode 5 Swift Broadband BLOS/LOS Radio	-	-	-	-	-	-	7.821	23.613	27.571	46.746
Low Cost Mods	1.966	0.000	0.300	0.428	-	0.428	-	0.820	-	1.999
C-5 Reliability Enhancement and Re-Engining Program	3,477.875	317.466	-	0.000	-	0.000	0.000	0.000	0.000	0.000
ELT Frequency Change	3.062	-	-	-	-	-	-	-	-	-
MFOQA	11.622	0.946	1.502	-	-	-	-	-	-	-
Replacement Heads Up Display (RHUD)	-	-	-	-	-	-	8.585	24.009	38.694	44.634
C-17 Sim Threat Generator	2.792	-	-	-	-	-	-	-	-	-
Block 13 to 17 Retrofit	857.411	17.194	-	-	-	-	-	-	-	-
AIRLIFT DEFENSIVE SYSTEMS-COUNTERMEASURES	0.498	-	-	-	-	-	-	-	-	-
NEXT GEN CNS/ATM	-	25.355	10.761	2.487	-	2.487	5.304	6.500	7.244	2.403
OBIGGS II	86.877	0.855	-	-	-	-	-	-	-	-
OBIGGS II Filter Fire Mitigation (2.1)	-	-	-	0.615	-	0.615	3.995	2.807	2.620	3.295
Extended Range Retrofit/OBIGGS II	186.727	-	-	-	-	-	-	-	-	-
LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	1,284.939	-	-	-	-	-	-	-	-	-

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Mobility Air Force Dynamic Retasking Capability (MAF DRC)	20.575	-	-	-	-	-	-	-	-	-
ILS Identification and Flight Control Computer Updates	10.783	-	-	-	-	-	-	-	-	-
Fixed Installation Satellite Antenna (FISA 2)	-	-	-	-	-	-	8.717	19.032	-	-
Low Cost Modifications	3.117	-	-	0.543	-	0.543	0.100	0.010	-	-
SERVICE BULLETINS	0.100	0.154	0.000	0.143	-	0.143	0.133	0.104	0.108	0.111
Low Cost Modifications	0.003	0.110	0.000	0.110	-	0.110	0.110	0.110	0.110	0.111
Nitrogen Generation System	22.925	2.971	1.000	-	-	-	-	-	-	-
CNS/ATM Compliance	-	-	1.000	3.965	-	3.965	2.976	1.984	-	-
SERVICE BULLETINS	0.005	0.005	0.005	0.005	-	0.005	0.005	0.005	0.005	0.005
99999SG - Service Bulletins - C-32B	0.932	0.928	0.935	1.000	-	1.000	1.000	1.000	1.000	1.000
Low Cost Modifications	0.005	0.005	0.005	0.005	-	0.005	0.005	0.005	0.005	0.005
99999XG - Low Cost Mods - C-32B	0.838	0.858	0.885	0.837	-	0.837	0.874	0.909	0.922	0.958
WIDEBAND SATCOM	54.500	18.000	10.000	-	-	-	-	-	-	-
CNS/ATM Compliance	-	-	0.500	4.675	-	4.675	10.195	5.353	2.478	-
SERVICE BULLETINS	0.100	0.100	0.100	0.100	-	0.100	0.100	0.100	0.100	0.100
Low Cost Modifications	0.352	0.357	0.261	0.229	-	0.229	0.343	0.322	0.358	0.363
Low Cost Modifications	3.064	1.132	0.134	0.394	-	0.394	0.136	0.138	0.139	0.142
Landing Gear Shimmy	1.180	-	-	-	-	-	-	-	-	-
Power Control Lever	5.303	-	-	-	-	-	-	-	-	-
OBOGS Low Pressure Switch and Concentrator	2.089	-	-	-	-	-	-	-	-	-
Landing Gear Door Spring Housing, Bellcrank & Pushrods	4.795	-	-	-	-	-	-	-	-	-
IDARS-MFOQA	3.906	-	-	-	-	-	-	-	-	-

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ATD Visual System Retrofit	22.414	11.964	0.000	-	-	-	-	-	-	-
Avionics Obsolescence	18.153	-	-	-	-	-	-	-	-	-
Traffic Advisory System	29.580	-	-	-	-	-	-	-	-	-
COCKPIT UPGRADES	6.030	-	-	-	-	-	-	-	-	20.947
Canopy Fracture Initiation System	-	1.466	0.775	0.277	-	0.277	0.201	0.110	-	-
LANDING GEAR HANDLE REDESIGN	2.837	-	-	-	-	-	-	-	-	-
AIRFRAME STRUCTURAL IMPROVEMENTS	16.370	-	-	-	-	-	-	-	-	-
Avionics Upgrades FAA Compliance	-	-	-	-	-	-	36.613	21.727	10.450	-
Low Cost Modifications	7.427	1.054	1.577	1.899	-	1.899	1.770	1.639	1.870	0.624
COMBAT SYSTEMS OFFICER (CSO) TRAINING	30.205	-	-	-	-	-	-	-	-	-
Low Cost Modifications	1.055	0.288	0.296	0.300	-	0.300	0.305	0.310	0.316	0.300
T-38 ESCAPE SYSTEM UPGRADE	158.612	-	-	-	-	-	-	-	-	-
VDTS/SBIS	6.000	0.758	-	-	-	-	-	-	-	-
LOW COST SAFETY MODIFICATIONS	0.024	0.005	0.005	0.005	-	0.005	0.005	0.005	0.005	0.005
Low Cost Modifications	0.025	0.006	0.006	0.006	-	0.006	0.006	0.006	0.006	0.006
CNS/ATM	43.364	72.049	-	-	-	-	-	-	-	-
Boom Control Unit (BCU)	2.512	-	-	-	-	-	-	-	-	-
Visual System Replacement (VSR)	12.723	-	-	-	-	-	-	-	-	-
UHF SATCOM Antenna	5.338	0.000	-	-	-	-	-	-	-	-
GATM Phase II	47.925	-	-	-	-	-	-	-	-	-
LOW COST SAFETY MODIFICATIONS	0.015	0.001	0.001	0.001	-	0.001	0.001	0.001	0.001	0.001
SERVICE BULLETINS	27.918	4.763	4.900	4.568	-	4.568	3.500	4.702	4.782	3.402
Low Cost Modifications	5.858	0.700	0.710	0.001	-	0.001	0.001	0.001	0.001	0.001

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SIMULATOR UPGRADE (KC-10)	36.031	-	-	-	-	-	-	-	-	-
SERVICE BULLETINS	0.376	1.460	1.480	1.495	-	1.495	1.537	1.574	1.610	1.649
Low Cost Modifications	0.500	0.500	0.500	0.500	-	0.500	0.500	0.500	0.500	0.500
C-25 Avionics Modernization Program	-	-	-	-	-	-	26.730	-	-	-
Nitrogen Generation System	-	0.500	-	-	-	-	-	-	-	-
WIDEBAND SATCOM	-	-	28.000	-	-	-	-	-	-	-
SERVICE BULLETINS	0.163	0.472	0.131	0.236	-	0.236	0.893	0.893	0.893	0.893
Low Cost Modifications	0.100	0.100	0.100	0.100	-	0.100	0.100	0.100	0.100	0.100
Nitrogen Generation System	5.873	3.077	2.041	-	-	-	-	-	-	-
CNS/ATM Compliance	-	-	0.969	2.841	-	2.841	10.828	-	-	-
SERVICE BULLETINS	0.131	0.100	0.146	0.143	-	0.143	0.149	0.153	0.158	0.163
Low Cost Modifications	0.115	0.115	0.115	0.100	-	0.100	0.100	0.100	0.100	0.100
PODDED RECONNAISSANCE SYSTEM	8.422	-	-	-	-	-	-	-	-	-
AUTOPILOT/GCAS	48.227	-	-	-	-	-	-	-	-	-
ELECTRICAL SYSTEM UPGRADE	15.636	-	-	-	-	-	-	-	-	-
C-130 8-Bladed Propeller Upgrade	26.000	30.000	10.000	-	-	-	-	-	-	-
ENGINES	8.016	-	-	-	-	-	-	-	-	-
ALR-69 (RWR)	64.289	-	-	-	-	-	-	-	-	-
AN/AAQ-22M (FLIR)	10.154	-	-	-	-	-	-	-	-	-
INSTALLATION OF AN/APN-241	127.336	-	-	-	-	-	-	-	-	-
Electronic Propeller Controll System (EPCS)	1.100	-	-	-	-	-	-	-	-	-
C-130 AVIONICS MODERNIZATION PROGRAM (AMP)	175.159	35.800	-	0.000	-	0.000	0.000	0.000	0.000	0.000

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C-130H Avionics Modernization Program (AMP) Increment 2	-	-	-	0.000	0.000	0.000	0.000	0.000	102.676	173.770
ENHANCED TCAS (TCAS II)	36.153	-	-	-	-	-	-	-	-	-
SYNCHROPHASER WIRE (C-130)	6.033	-	-	-	-	-	-	-	-	-
C-130 GENERATOR DISCONNECT INSTALLATION WR-98-004	1.475	-	-	-	-	-	-	-	-	-
ALE-47 CHAFF AND FLARE DISPENSER	23.057	-	-	-	-	-	-	-	-	-
Mode S & 8.33 MHz Upgrades	78.554	-	-	-	-	-	-	-	-	-
ALR-69 UPGRADE	13.780	-	-	-	-	-	-	-	-	-
LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	853.368	-	-	-	-	-	-	-	-	-
HC-130P/N Personal Locator System	5.400	0.240	-	-	-	-	-	-	-	-
HC-130 Integrated Electronic Warfare (EW) Suite	6.000	-	-	-	-	-	-	-	-	-
AAR-47 Sensor Upgrade	1.618	-	-	-	-	-	-	-	-	-
NOISE CANCELLATION SYSTEM	10.925	-	-	-	-	-	-	-	-	-
AC-130 OUTER WING REPLACEMENT	4.845	-	-	-	-	-	-	-	-	-
HC-130 8.33 RADIOS	21.872	-	-	-	-	-	-	-	-	-
MOD V IFF	41.948	1.630	-	-	-	-	2.600	-	-	-
C-130 DUAL RAILS	4.117	-	-	-	-	-	-	-	-	-
C-130 CRASHWORTHY LOADMASTER SEAT	16.256	1.089	-	-	-	-	-	-	-	-
Tactics/Threat Generation System	9.009	-	-	-	-	-	-	-	-	-
MC Combined CARA/ETCAS	2.307	-	-	-	-	-	-	-	-	-
Blue Force Tracker	0.400	-	-	-	-	-	-	-	-	-
Armor Plate	20.502	-	-	-	-	-	-	-	-	-

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ENGINE OIL COOLER	31.125	-	-	-	-	-	-	-	-	-
Square Window Troop Door	16.401	-	-	-	-	-	-	-	-	-
C-130 Aux Hyd Pump	13.330	1.237	0.326	0.328	-	0.328	0.522	-	-	-
Real Time Information in the Cockpit (RTIC) Kits	1.875	-	-	-	-	-	-	-	-	-
AFR C-130 Fuselage Trainer Modification	7.000	-	-	-	-	-	-	-	-	-
C-130H Avionics Modernization Program (AMP) Increment 1	-	0.000	70.000	0.000	0.000	0.000	53.000	51.543	15.000	4.000
8.33 kHz Radios--C-130H Avionics Modernization Program (AMP) Increment 1	9.922	7.447	-	-	-	-	-	-	-	-
CVR/DFDR--C-130H Avionics Modernization Program (AMP) Increment 1	4.278	7.151	-	-	-	-	-	-	-	-
HC-130 Crashworthy Seats	6.000	-	-	-	-	-	-	-	-	-
HC-130 T-1 Mods	3.675	-	-	-	-	-	-	-	-	-
AC-130W Radar Pods	-	20.400	-	-	-	-	-	-	-	-
AC-130W Hellfire Capability	-	2.240	-	-	-	-	-	-	-	-
HC-130 SABIR	-	12.400	-	-	-	-	-	-	-	-
T-56 3.5 Engine Mod	15.700	22.600	33.200	-	-	-	-	-	-	-
Onboard Fire Incident Response Equipment	130.000	-	-	-	-	-	-	-	-	-
HC-130P/N Variable Speed Drogue (VSD)	-	-	1.410	-	-	-	-	-	-	-
Electronic Propeller Control System (EPCS)	-	-	13.500	-	-	-	-	-	-	-
In-Flight Propeller Balancing System (IPBS)	-	-	1.500	0.000	-	0.000	-	-	-	-
LOW COST SAFETY MODIFICATIONS	2.832	1.384	1.900	0.500	-	0.500	1.900	1.463	1.716	1.594
HC-130 Low Cost Mods	1.907	-	-	-	-	-	-	-	-	-
MISC SIMULATOR UPDATES	0.703	0.001	1.200	0.100	-	0.100	0.274	1.189	0.365	0.064

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SERVICE BULLETINS	0.001	0.001	1.226	1.101	-	1.101	1.012	0.607	0.001	0.200
Low Cost Modifications	8.988	1.999	1.900	1.999	-	1.999	1.999	1.999	1.999	1.999
ELT UPGRADE	18.341	-	-	-	-	-	-	-	-	-
ANG SENIOR SCOUT	77.508	-	-	-	-	-	-	-	-	-
C-130J Tactics Training	16.015	-	-	-	-	-	-	-	-	-
Avionics System and Structural Modifications	23.502	0.432	0.283	3.200	-	3.200	3.200	0.296	-	-
Wind Gust Brake	39.172	0.148	0.114	1.600	-	1.600	1.500	0.250	-	-
C-130J BLOCK 7.0 UPGRADES	13.452	-	-	-	-	-	-	-	-	-
LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	91.807	-	-	-	-	-	-	-	-	-
Dynamic Retasking Capability	23.010	-	-	-	-	-	-	-	-	-
Low Cost Modifications	9.004	0.001	0.100	0.100	-	0.100	0.500	0.500	0.500	0.500
STANDARD FLIGHT DATA RECORDER	5.401	-	-	-	-	-	-	-	-	-
C-135 REENGINE	30.750	-	-	-	-	-	-	-	-	-
FLIGHT DATA RECORDER & COCKPIT VOICE RECORDER	27.030	-	-	-	-	-	-	-	-	-
PACER CRAG (COMPASS, RADAR, AND GPS)	135.021	-	-	-	-	-	-	-	-	-
ENHANCED MODE S	28.092	-	-	-	-	-	-	-	-	-
GATM Phase II	909.568	-	-	-	-	-	-	-	-	-
CONTROL COLUMN ACTUATOR BRAKE (CCAB)	40.723	-	-	-	-	-	-	-	-	-
BOWST	8.800	-	-	-	-	-	-	-	-	-
MODE 5	12.994	-	-	-	-	-	-	-	-	-
VOR/ILS ANTENNAE	6.751	1.727	0.752	0.162	-	0.162	-	-	-	-
Visual System Replacement (VSR)	29.767	0.000	-	0.000	-	0.000	0.000	0.000	0.000	0.000

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APU Oil Cooler	7.954	-	-	-	-	-	-	-	-	-
ADS-B	-	-	-	-	-	-	5.000	3.200	-	-
LOW COST SAFETY MODIFICATIONS	0.025	0.025	0.025	0.025	-	0.025	0.025	0.025	0.025	0.025
Low Cost Modifications	6.814	0.471	1.000	1.901	-	1.901	1.000	1.995	1.995	1.995
TSI	13.115	3.335	1.540	3.902	-	3.902	3.716	4.045	1.680	4.290
BLOCK 40/45 UPGRADE	658.246	-	-	-	-	-	-	-	-	-
Communications Networking Upgrade (CNU)	-	-	-	-	-	-	10.016	14.044	17.724	6.129
NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF)	50.479	9.899	3.502	1.680	-	1.680	-	-	-	-
NAVWAR	13.972	-	-	-	-	-	-	-	-	-
INTEGRATED DAMA GATM	130.323	-	-	-	-	-	-	-	-	-
AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	5.016	0.608	0.687	0.687	-	0.687	0.700	0.713	0.725	0.739
RM&A Mod	18.806	1.999	0.825	0.668	-	0.668	0.620	0.075	0.310	0.320
Virtual Warfare Center	-	-	-	-	-	-	9.424	-	-	-
VERTICAL STABILIZER AND RUDDER	1.578	0.374	0.665	0.287	-	0.287	0.135	0.018	-	-
ELECTRONIC PROTECTION	-	-	-	0.000	0.000	0.000	13.969	17.408	12.009	3.339
Combat ID Diminishing Manufacturing Sources	-	-	-	-	-	-	5.431	7.344	8.037	22.906
LOW COST MOD - AIRFRAME	0.112	0.138	0.100	0.100	-	0.100	0.131	0.010	0.100	0.100
LOW COST MOD - AVIONICS & MISSION SYSTEMS	0.112	0.138	0.100	0.100	-	0.100	0.131	0.010	0.100	0.100
NPES (NC2AIS) E-4B	2.010	0.020	0.700	-	-	-	-	-	-	-
SHF Modernization	55.644	10.747	8.000	-	-	-	-	-	-	-
AEHF Compatible Terminal/PNVC	-	0.000	-	0.017	-	0.017	2.540	1.290	-	-
AIU Modernization	47.137	0.833	-	-	-	-	-	-	-	-

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E-4B COMMUNICATION NAVIGATION SURVEILLANCE/ AIR TRAFFIC MANAGEMENT I	3.705	0.732	-	-	-	-	-	-	-	-
CNS/ATM(ADS-B OUT)	-	1.200	4.562	4.720	-	4.720	-	-	-	-
Low Cost Modifications	4.985	0.450	1.990	1.990	-	1.990	1.990	1.990	1.990	1.990
Family of Beyond Line-of-Sight Terminals	-	27.026	43.843	4.673	0.000	4.673	22.216	14.410	1.985	1.589
UH-1N SIMULATOR UPGRADE	1.820	-	-	-	-	-	-	-	-	-
HUEY II MODERNIZATION	159.299	0.997	1.014	1.003	-	1.003	1.037	1.055	1.078	1.097
TRAFFIC ALERT & COLLISION AVOIDANCE SYSTEM	10.750	4.750	-	-	-	-	-	-	-	-
UH-1N Safety Modifications	11.200	-	-	-	-	-	-	-	-	-
AETC FLIR	-	0.500	1.800	1.900	-	1.900	-	-	-	-
USMC Missionization	-	-	0.028	1.634	-	1.634	0.786	-	-	-
Simulator Concurrency	-	0.075	1.651	1.189	-	1.189	-	-	-	-
Automatic Dependent Surveillance - Broadcast	-	-	-	1.938	-	1.938	0.546	0.546	-	-
Low Cost Modifications	3.801	1.915	1.798	1.343	-	1.343	1.356	1.364	1.643	1.673
UH-1N Replacement	-	-	2.456	-	-	-	-	-	-	-
ALTITUDE HOLD AND HOVER SYSTEM (AHHS)	34.471	0.703	0.599	0.010	-	0.010	-	-	-	-
KIRTLAND SIM UPGRADES	37.778	-	-	-	-	-	-	-	-	-
SERVICE LIFE EXTENSION PROGRAM	38.307	0.000	-	-	-	-	-	-	-	-
LIGHTWEIGHT AIRBORNE RECOVERY SYSTEM V12 UPGRADE	22.661	1.001	0.390	-	-	-	-	-	-	-
Control Display Unit (CDU)	13.044	0.010	0.010	0.210	-	0.210	5.563	-	-	-
Navigation System Upgrade (NSU)	56.400	0.727	1.245	3.190	-	3.190	2.445	0.100	-	-
Vibration Monitoring System (VMS)	34.249	4.779	1.885	0.010	-	0.010	-	-	-	-
Situation Awareness Data-Link	21.957	-	-	-	-	-	-	-	-	-

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Multi-function Color Display	29.859	0.320	1.456	1.259	-	1.259	0.445	-	-	-
CSAR Avionics/Electrical Upgrade	10.960	3.759	0.758	0.620	-	0.620	0.618	-	-	-
DEFENSIVE SYSTEM UPGRADE	14.999	0.020	-	0.010	-	0.010	-	-	-	-
Ballistic Protection Enhancement	1.887	0.010	-	-	-	-	-	-	-	-
Block 162	-	-	51.489	1.336	-	1.336	23.264	30.078	21.153	21.607
Rotor Brake	-	-	3.000	0.010	-	0.010	-	-	-	-
SERVICE BULLETINS	0.091	-	-	-	-	-	-	-	-	-
Low Cost Modifications	3.910	1.448	0.277	0.464	-	0.464	1.672	1.883	1.917	1.950
GH Aircraft Mods	378.500	8.906	4.715	1.084	-	1.084	10.981	30.906	14.379	7.202
GH Ground Station Mods	15.523	-	-	-	-	-	-	-	-	-
ASIP Increment I	-	-	30.501	0.000	-	0.000	0.000	-	-	-
SAR Complex Imagery	-	-	2.133	2.418	-	2.418	-	-	-	-
ASIP Install/Calibration	-	12.448	0.000	0.000	-	0.000	-	-	-	-
MODE 5/ADS-B	-	-	-	1.205	-	1.205	1.338	2.804	-	-
R&M Enhancements	-	-	4.841	1.634	-	1.634	-	-	-	-
Ice Protection System	-	-	-	-	-	-	-	14.338	17.724	18.258
ADC/JPEG 2000	-	-	-	1.835	-	1.835	2.070	2.134	0.192	-
CSMP	-	-	-	-	-	-	-	-	-	116.202
EERU Enhancements	-	-	-	-	-	-	3.820	4.200	4.500	12.000
ASIP Increment II	-	-	-	-	-	-	-	-	-	-
Low Cost Modifications	-	-	2.000	2.000	-	2.000	2.000	2.000	2.000	2.000
HC/MC-130J Block 8.1	-	-	-	-	-	-	-	31.919	3.253	3.321

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LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM)	34.000	-	-	-	-	-	-	-	-	-
HC-130J Common Configuration	25.252	-	10.508	3.712	-	3.712	6.479	2.180	0.468	0.500
HC-130J Personnel Locator System	4.700	6.100	-	-	4.250	4.250	-	-	-	-
HC-130J Video Data Link	-	22.700	-	-	-	-	-	-	-	-
HC-130J Variable Speed Drogue	-	-	4.030	-	-	-	-	-	-	-
HC-130J Wireless Intercom	-	-	1.660	-	-	-	-	-	-	-
Low Cost Modifications	6.245	1.902	1.960	1.987	-	1.987	1.993	1.635	0.452	0.428
COMBAT AIR FORCES RESCUE MSN TRNG	5.039	-	-	-	-	-	-	-	-	-
ANG RC-26	0.267	-	-	-	-	-	-	-	-	-
EHF SATCOM	15.502	21.784	0.001	-	-	-	-	-	-	-
Full Combat Mission Training	57.234	1.140	2.459	1.694	-	1.694	5.468	5.713	1.975	2.011
Sniper CMDL Backback Kits and Datalogger Purchase	7.807	0.000	-	0.000	-	0.000	-	-	-	-
ATP upgrade Legacy to SE	31.907	3.210	1.033	0.821	-	0.821	0.976	0.940	0.957	0.975
ATP-SE Technology Insertion	-	0.000	29.875	-	-	-	-	-	-	-
MH-53 IFF APX-118	0.291	-	-	-	-	-	-	-	-	-
DEPOT MAINTENANCE (NON-IF)	1.249	-	-	-	-	-	-	-	-	-
Theatre Airborne Reconnaissance System (TARS)	8.423	-	-	-	-	-	-	-	-	-
JOINT TACTICAL RADIO SYSTEM	86.636	4.502	-	-	-	-	-	-	-	-
LOW COST SAFETY MODIFICATIONS	0.002	-	-	-	-	-	-	-	-	-
LOW COST MODIFICATIONS - TARGETING PODS	0.003	-	-	-	-	-	-	-	-	-
MISCELLANEOUS LOW COSTS MODS (Combat Developments)	2.119	0.140	0.128	0.138	-	0.138	0.162	0.149	0.152	0.155
LOW COST RETROFIT MODS	0.779	-	-	-	-	-	-	-	-	-

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Low Cost Modifications	0.002	-	-	-	-	-	-	-	-	-
COMMON MISSILE WARNING SYSTEM	0.755	-	-	-	-	-	-	-	-	-
HH-60U	-	-	1.900	1.708	0.000	1.708	0.000	0.000	0.000	0.000
UHF SATCOM UPGRADE	39.396	-	-	-	-	-	-	-	-	-
Aircraft PPDL	24.708	-	-	-	-	-	-	-	-	-
Differential GPS	4.701	-	-	-	-	-	-	-	-	0.000
Digital Video	20.834	-	-	-	-	-	-	-	-	0.000
VORTEX	31.305	0.000	-	-	-	-	-	-	-	-
GCS PPDL	106.948	-	-	-	-	-	-	-	-	0.000
GCS Modernization	36.362	-	-	-	-	-	-	-	-	0.000
IP Migration	32.413	0.702	-	-	-	-	-	-	-	0.000
Low Cost Modifications	1.167	2.000	2.000	-	-	-	-	-	-	0.000
PREDATOR A/B MODIFICATIONS	209.698	2.053	1.173	-	-	-	-	-	-	-
GCS Blk 50	-	-	-	-	-	-	-	-	38.675	77.682
MTS-B HD	22.739	0.272	-	-	-	-	-	-	-	-
IP Migration	29.290	1.974	-	-	-	-	-	-	-	-
MQ-9 Low Cost Mods	2.000	2.000	2.000	2.000	-	2.000	2.000	2.000	2.000	2.000
Low Cost Modifications	12.015	1.999	1.999	1.999	-	1.999	1.999	1.999	1.999	1.999
Exhibit P-3a										
B-2 Trainer System Upgrade	26.052	2.203	3.131	9.578	0.000	9.578	9.067	7.864	8.001	8.148
LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS	43.151	0.000	0.000	8.263	0.000	8.263	8.440	8.599	9.683	20.045
B-2 Flex Strike Phase 1	0.000	0.000	0.000	4.214	0.000	4.214	6.647	6.547	3.771	-

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MGUE	-	-	-	4.066	0.000	4.066	6.799	2.691	0.000	0.000
Common Very Low Frequency Terminal	0.000	0.000	19.190	18.592	0.000	18.592	9.332	4.009	-	-
Fully Integrated Data Links	228.106	52.484	47.547	56.773	0.000	56.773	29.810	33.094	11.284	11.493
CITS UPGRADE	59.482	16.954	18.650	14.637	0.000	14.637	14.185	15.750	1.073	1.099
VERTICAL SITUATION DISPLAYS	112.833	48.038	39.515	42.791	0.000	42.791	32.673	38.920	8.538	8.695
B-52 Combat Network Communications Technology	157.896	121.987	124.144	99.068	0.000	99.068	95.536	54.077	27.427	27.931
LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130	-	0.000	0.000	0.000	14.301	14.301	0.000	0.000	0.000	0.000
LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J	95.060	4.943	0.000	0.000	24.718	24.718	0.000	0.000	0.000	0.000
LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17	86.602	7.837	84.335	0.000	70.000	70.000	0.000	0.000	0.000	0.000
LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5	9.685	0.099	0.000	0.000	26.782	26.782	0.000	0.000	-	-
LARS-V12/C SEL	-	-	-	0.000	23.000	23.000	0.000	0.000	0.000	0.000
F-15E Radar Modernization Program APG-82(V)1	459.222	240.947	254.793	97.175	0.000	97.175	220.222	224.754	326.819	332.842
F-16 LEGACY STRUCTURAL SLEP	0.000	0.000	0.000	2.775	0.000	2.775	18.098	36.978	67.479	112.546
Aggressors Update	-	0.000	0.000	6.925	0.000	6.925	5.298	1.163	0.000	0.000
Link 16 Crypto	-	0.000	3.200	6.447	0.000	6.447	6.117	6.755	8.371	8.525
MIDS-JTRS	-	-	0.000	14.075	0.000	14.075	76.189	156.168	48.043	44.284
HLD AESA Radar JUON	-	-	0.000	56.496	0.000	56.496	15.873	1.984	0.992	0.000
Reliability and Maintainability Maturation Program	916.973	130.780	77.444	125.835	0.000	125.835	129.723	42.013	95.921	69.029
F119 Engine Modifications	43.177	10.716	15.900	14.500	0.000	14.500	13.200	12.002	21.300	18.857
Structures Retrofit Plan	214.463	24.543	13.332	14.598	0.000	14.598	14.167	5.358	5.222	0.000

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Air Force • President's Budget Submission FY 2017 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Block 3i LRIP 2-5 Upgrade	63.420	81.695	44.797	11.484	0.000	11.484	5.098	2.117	8.171	0.000
Concurrency	134.728	105.090	18.580	164.320	0.000	164.320	380.237	233.227	93.575	102.729
INCREMENT 3.2B	0.000	28.500	64.325	78.410	0.000	78.410	143.679	13.081	20.373	20.749
Mission Computer and Weather Radar	0.000	0.050	0.000	19.814	0.000	19.814	26.476	38.870	35.884	15.645
Pylon Stub FFLZ, FF, Translating Fairing	70.269	8.709	3.711	11.607	0.000	11.607	5.061	0.000	0.000	0.000
IFF GATM Mode 5	31.811	33.335	27.723	6.303	0.000	6.303	61.785	11.168	3.887	3.080
Avionics Upgrades and FAA Mandates	-	-	9.860	5.186	0.000	5.186	7.952	10.861	-	-
WIDEBAND SATCOM	37.000	4.000	35.634	29.423	0.000	29.423	14.737	-	-	-
Aircrew Training Device (ATD) Modernization	-	-	12.616	10.589	0.000	10.589	12.543	2.559	14.166	5.404
Avionics Modification	-	7.362	12.810	24.773	0.000	24.773	39.354	40.078	40.772	41.546
Pacer Classic III	74.060	28.076	24.540	31.255	0.000	31.255	25.598	22.831	23.227	23.655
T-38C Avionics Post Production Support (APPS)	-	0.000	6.053	13.824	0.000	13.824	29.083	74.661	2.557	2.603
U-2 Mod	96.347	0.000	22.095	36.074	0.000	36.074	26.590	7.474	0.000	-
VC-25 Block Upgrade	-	-	70.000	102.334	0.000	102.334	38.448	27.271	48.016	0.000
WIDEBAND SATCOM	48.000	4.000	7.900	10.900	0.000	10.900	-	-	-	-
C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	659.549	13.690	0.496	5.140	0.000	5.140	14.766	0.530	15.022	15.033
BLOCK 8.1	-	-	28.716	71.729	0.000	71.729	73.721	118.520	132.020	134.462
C-130J Center Wing Replacement	31.572	25.337	0.500	12.795	0.000	12.795	31.253	19.625	0.496	0.505
BLOCK 45	64.841	61.345	47.091	57.170	0.000	57.170	57.314	53.866	54.497	55.550
Rudder Position Indicator (RPI)	-	0.000	0.000	4.903	0.000	4.903	5.978	6.124	6.267	5.137
COMPASS CALL	-	82.628	70.591	25.452	0.000	25.452	0.000	-	-	-
COMPASS CALL Baseline 3	-	0.000	26.399	104.805	0.000	104.805	101.982	45.511	37.259	37.946

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Air Force • President's Budget Submission FY 2017 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
COBRA BALL	-	6.062	6.144	6.325	0.000	6.325	6.637	6.776	6.898	7.022
RIVET JOINT	-	146.745	152.938	184.385	0.000	184.385	187.807	171.169	174.334	177.554
COMBAT SENT	-	10.539	6.633	20.728	0.000	20.728	6.793	6.834	6.957	7.082
E-3 DRAGON	0.000	0.000	0.000	56.188	0.000	56.188	96.891	99.515	124.410	118.617
IP-enabled Capability (IPEC)	-	0.000	5.409	19.174	6.600	25.774	13.712	14.249	3.758	0.000
Low Frequency Transmit System (LFTS)	0.000	0.000	0.000	41.205	0.000	41.205	22.766	31.445	33.424	34.040
SERVICE BULLETINS	14.143	3.109	4.685	5.416	0.000	5.416	5.514	5.541	5.672	5.814
Prime Mission Equipment - Diminishing Manufacturing Sources	105.683	0.000	18.001	6.244	0.000	6.244	10.714	-	-	-
BLOCK 40/45 BLOCK UPGRADE	0.000	191.284	178.308	223.427	0.000	223.427	103.420	58.154	29.309	0.000
MODE 5	12.225	0.670	0.908	8.620	0.000	8.620	1.692	0.050	0.000	-
Gun Replacement	17.839	2.381	0.000	10.164	0.000	10.164	3.501	0.000	0.000	-
HH-60 OLR Mission Modifications	322.753	44.282	5.037	53.754	0.000	53.754	23.368	0.410	0.410	0.410
DVE Sensor	-	0.000	0.000	11.700	0.000	11.700	13.300	12.000	9.400	2.600
Enhanced Weather Capability	-	-	5.832	7.599	0.000	7.599	3.350	0.331	0.056	-
Sensor Enhancements	-	-	-	11.270	0.000	11.270	31.746	24.365	1.178	0.000
Communication Interoperability/Enhancements	-	-	-	3.000	0.000	3.000	0.000	0.000	0.000	0.000
MC-130J Increment 2	14.113	0.000	9.192	8.257	0.000	8.257	6.307	0.000	0.000	-
HC-130J Situational Awareness	-	12.500	0.000	16.811	0.000	16.811	27.621	0.000	0.000	0.000
HC-130J Countermeasures Dispenser System Rapid Dispense	-	-	-	0.000	9.300	9.300	0.000	0.000	0.000	0.000
MAF Training	21.546	7.197	0.000	29.525	0.000	29.525	20.604	28.674	34.901	0.000
Battlefield ABN Comm Node (BACN)	-	1.990	0.000	0.000	7.500	7.500	0.000	0.000	-	-
Block 5	0.000	0.000	6.399	21.794	0.000	21.794	47.336	108.389	109.305	91.545

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Air Force • President's Budget Submission FY 2017 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
MQ-9 Field	148.564	19.868	5.334	2.843	5.068	7.911	0.000	0.000	0.000	0.000
Lynx SAR	-	33.432	24.907	25.317	0.000	25.317	27.239	14.048	0.000	-
GCS Blk 30	61.733	22.380	11.012	14.717	0.000	14.717	0.000	0.000	0.000	0.000
R&M enhancements	9.241	27.241	32.210	6.256	0.000	6.256	2.179	2.320	2.337	1.684
Extended Range MQ-9	83.610	48.278	102.189	39.262	0.000	39.262	48.977	12.035	0.000	0.000
MQ-9 Upgrade	-	-	0.000	29.740	107.000	136.740	75.130	97.899	77.122	67.834
Block 20 Upgrade	58.391	72.875	56.604	61.396	0.000	61.396	63.893	66.844	68.826	70.132
Totals (Total Obligation Authority)										
Total Obligation Authority	23,394.030	3,056.852	2,725.102	2,504.953	299.369	2,804.322	3,453.530	3,206.512	3,862.250	4,282.367

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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
LANTIRN	- Low Altitude Navigation and Targeting Infra Red System for Night
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

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PY	- Prior Year
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
SAM	- Surface-to-Air Missile
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
UHF	- Ultra High Frequency
USA	- United States of America
XML	- Extensible Markup Language

BASE / ORGANIZATIONAL ACRONYMS

11 WING	- 11th Support Wing
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

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AFMETCAL	- Air Force Metrology and Calibration Office
AFMLO	- Air Force Medical Logistics Office
AFNEWS	- Air Force Information & News Service Center
AFOSI	- Air Force Office of Special Investigation
AFOTEC	- Air Force Operational Test & Evaluation Center
AFPC	- Air Force Personnel Center
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

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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

CONTRACT METHOD / TYPE ACRONYMS

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

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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
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
SSG	- Standard Systems Group, Maxwell AFB-Gunter Annex, AL

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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 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft	P-1 Line Item Number / Title: B00200 / B-2A
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0101125F, 0101127F	Other Related Program Elements: 0101127F
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Line Item MDAP/MAIS Code: 224	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	343.107	17.653	32.458	46.729	-	46.729	51.133	90.584	313.088	526.126	317.295	1,738.173
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	343.107	17.653	32.458	46.729	-	46.729	51.133	90.584	313.088	526.126	317.295	1,738.173
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	343.107	17.653	32.458	46.729	-	46.729	51.133	90.584	313.088	526.126	317.295	1,738.173

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

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

Description:

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

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

B-2 Projects beginning procurement in FY 2017 are: Military GPS User Equipment (MGUE), Flexible Strike Phase 1 and Adaptable Communications Suite (ACS).

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.653	32.458	46.729	-	46.729	51.133	90.584	313.088
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	17.653	32.458	46.729	-	46.729	51.133	90.584	313.088

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

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

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

Line Item MDAP/MAIS Code: 224 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	110026 / EHF SATCOM and Computers (Capability Improvement)			- / 111.765	- / 6.189	- / -	- / -	- / -	- / -
P-40a***	110032 / LINK 16/CID/IFR (Capability Improvement)			- / 92.446	- / -	- / 0.474	- / 0.415	- / -	- / 0.415
P-40a***	110043 / B-2 Adaptable Communications Suite (ACS) (Capability Improvement)			- / 21.037	- / -	- / -	- / 0.297	- / -	- / 0.297
P-40a***	110044 / B-2 Defensive Management System (DMS) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	110051 / LOSSM - Structures (Reliability & Maintainability)			- / 6.507	- / 3.044	- / 7.158	- / -	- / -	- / -
P-40a***	110052 / 110052 LOSSM - Materials (Reliability & Maintainability)			- / 5.826	- / 0.941	- / 0.669	- / -	- / -	- / -
P-40a***	110053 / LOSSM - Diagnostics (Reliability & Maintainability)			- / 0.518	- / 2.657	- / 0.669	- / -	- / -	- / -
P-40a***	110056 / B61-12 Integration (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	110058 / EHF SATCOM (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999U / B-2 Low Cost Engine Modifications (Capability Improvement)			- / 18.191	- / 0.621	- / 0.626	- / 0.703	- / -	- / 0.703
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 17.614	- / 1.998	- / 0.541	- / 0.601	- / -	- / 0.601
P-3a	110031 / B-2 Trainer System Upgrade (Capability Improvement)			- / 26.052	- / 2.203	- / 3.131	- / 9.578	- / -	- / 9.578
P-3a	110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS (Reliability & Maintainability)			- / 43.151	- / -	- / -	- / 8.263	- / -	- / 8.263
P-3a	110054 / B-2 Flex Strike Phase 1 (Capability Improvement)			- / 0.000	- / -	- / -	- / 4.214	- / -	- / 4.214
P-3a	110057 / MGUE (Capability Improvement)			- / -	- / -	- / -	- / 4.066	- / -	- / 4.066
P-3a	8882 / Common Very Low Frequency Terminal (Capability Improvement)			- / 0.000	- / -	- / 19.190	- / 18.592	- / -	- / 18.592
P-40	Total Gross/Weapon System Cost			- / 343.107	- / 17.653	- / 32.458	- / 46.729	- / -	- / 46.729

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	110026 / EHF SATCOM and Computers (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 117.954
P-40a***	110032 / LINK 16/CID/IFR (Capability Improvement)			- / 0.295	- / 0.247	- / 0.201	- / 0.206	- / -	- / 94.284
P-40a***	110043 / B-2 Adaptable Communications Suite (ACS) (Capability Improvement)			- / 0.298	- / 0.298	- / 0.298	- / 0.303	- / -	- / 22.531
P-40a***	110044 / B-2 Defensive Management System (DMS) (Capability Improvement)			- / -	- / 49.884	- / 280.497	- / 365.563	- / 108.000	- / 803.944
P-40a***	110051 / LOSSM - Structures (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 16.709
P-40a***	110052 / 110052 LOSSM - Materials (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 7.436
P-40a***	110053 / LOSSM - Diagnostics (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 3.844
P-40a***	110056 / B61-12 Integration (Capability Improvement)			- / 8.926	- / 9.092	- / 9.260	- / 9.431	- / -	- / 36.709
P-40a***	110058 / EHF SATCOM (Capability Improvement)			- / -	- / -	- / -	- / 121.026	- / 209.295	- / 330.321
P-40a***	99999U / B-2 Low Cost Engine Modifications (Capability Improvement)			- / 0.717	- / 0.729	- / 0.742	- / 0.757	- / -	- / 23.086
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.612	- / 0.624	- / 0.635	- / 0.647	- / -	- / 23.272

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

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

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

Line Item MDAP/MAIS Code: 224 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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	110031 / B-2 Trainer System Upgrade (Capability Improvement)			- / 9.067	- / 7.864	- / 8.001	- / 8.148	- / -	- / 74.044
P-3a	110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS (Reliability & Maintainability)			- / 8.440	- / 8.599	- / 9.683	- / 20.045	- / -	- / 98.181
P-3a	110054 / B-2 Flex Strike Phase 1 (Capability Improvement)			- / 6.647	- / 6.547	- / 3.771	- / -	- / -	- / 21.179
P-3a	110057 / MGUE (Capability Improvement)			- / 6.799	- / 2.691	- / -	- / -	- / -	- / 13.556
P-3a	8882 / Common Very Low Frequency Terminal (Capability Improvement)			- / 9.332	- / 4.009	- / -	- / -	- / -	- / 51.123
P-40	Total Gross/Weapon System Cost			- / 51.133	- / 90.584	- / 313.088	- / 526.126	- / 317.295	- / 1,738.173

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B00200 / B-2A				Modification Number / Title: 110031 / B-2 Trainer System Upgrade				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	26.052	2.203	3.131	9.578	-	9.578	9.067	7.864	8.001	8.148	-	74.044
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	26.052	2.203	3.131	9.578	-	9.578	9.067	7.864	8.001	8.148	-	74.044
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	26.052	2.203	3.131	9.578	-	9.578	9.067	7.864	8.001	8.148	-	74.044

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

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

Description:

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

The B-2 Training System upgrade effort includes, but is not limited to, updates to training device hardware and computers, simulation software, course-ware lessons and academics materials, instructional system design architectures, engineering drawings, and system documentation not driven by a funded aircraft modification. These upgrades are ongoing and necessary to ensure concurrency with the B-2 weapon system while providing the combat fidelity necessary to train operational and warfighter employment requirements, preserving precious flight hours, avoiding 30-40 hour on-aircraft training sorties or committing an aircraft to maintenance and weapons loading training negatively affecting aircraft availability. Upgrades include, but are not limited to, updates to threat systems parametric and order of battle information, upgrades of radar emulation components and capabilities in the WSTs /Mission Trainers, updates of display systems and subsystems, and fidelity upgrades of the WST to more precisely resemble air refueling and approach /landing procedures experienced in the jet. Additional improvements include updates to course-ware and simulation associated with nuclear and conventional guided weapons delivery, expanded crypto keyfill training, upgrade of the electronic combat environment threat database tools to include, but not limited to, threat laydown, threat parametrics, and Integrated Air Defense System threat environments. Improvements will also include expanded "freeplay" capability on the CPTs and CMTSs, upgrade of the WST simulation to provide weapons as powered up upon completion of initial conditions, upgrade of the current Defensive Management System (DMS) simulation and the DMS alternative /emergency procedures course-ware, upgrade of the Mission Generation System, upgrade of the Suppressor tool, upgrade of the MDR to provide two-way communication (voice and text), provide the ability to prepare scripted events and /or input real-time modifications to the virtual environment (i.e. weather, players, etc.), provide the means to preview missions, observe live events, and review recorded events, and upgrade of the simulation and computational processors as necessary. Life of Type buys may be implemented when appropriate to address diminishing manufacturing sources and materiel shortages for affected components and subassemblies to protect the planned production program by mitigating unplanned part redesign and re-qualification risks.

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

Milestone/Development Status

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110031 / B-2 Trainer System Upgrade
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Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.203	3.131	9.578	-	9.578	9.067	7.864	8.001	8.148
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.203	3.131	9.578	-	9.578	9.067	7.864	8.001	8.148

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B00200 / B-2A					Modification Number / Title: 110031 / B-2 Trainer System Upgrade			
Models of Systems Affected: B-2				Modification Type: Capability Improvement				Related RDT&E PEs: 0101127F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: B-2 Trainer Mods</i>													
A Kits													
Recurring													
B-2 Trainer Mods:INSTALL KITS Group A (Active)	- / 5.889	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.889	
<i>Subtotal: Recurring</i>	- / 5.889	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.889	
B Kits													
Recurring													
B-2 Trainer Mods:EQUIPMENT Group B (Active)	- / 11.005	- / 2.203	- / 3.131	- / 9.578	- / -	- / 9.578	- / 9.067	- / 7.864	- / 8.001	- / 8.148	- / -	- / 58.997	
<i>Subtotal: Recurring</i>	- / 11.005	- / 2.203	- / 3.131	- / 9.578	- / -	- / 9.578	- / 9.067	- / 7.864	- / 8.001	- / 8.148	- / -	- / 58.997	
<i>Subtotal: B-2 Trainer Mods</i>	- / 16.894	- / 2.203	- / 3.131	- / 9.578	- / -	- / 9.578	- / 9.067	- / 7.864	- / 8.001	- / 8.148	- / -	- / 64.886	
<i>Subtotal: Procurement, All Modification Items</i>	- / 16.894	- / 2.203	- / 3.131	- / 9.578	- / -	- / 9.578	- / 9.067	- / 7.864	- / 8.001	- / 8.148	- / -	- / 64.886	
Support (All Modification Items)													
SIM/TRAINER	0 / 8.591	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.591	
OTHER GOVT	- / 0.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.567	
<i>Subtotal: Support</i>	0 / 9.158	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.158	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	26.052	2.203	3.131	9.578	-	9.578	9.067	7.864	8.001	8.148	-	74.044	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110031 / B-2 Trainer System Upgrade
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Modification Item 1 of 1: B-2 Trainer Mods

Manufacturer Information

Manufacturer Name: L3 Comm	Manufacturer Location: Binghamton, NY
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

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

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B00200 / B-2A					Modification Number / Title: 110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	43.151	-	-	8.263	-	8.263	8.440	8.599	9.683	20.045	-	98.181
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	43.151	-	-	8.263	-	8.263	8.440	8.599	9.683	20.045	-	98.181
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	43.151	-	-	8.263	-	8.263	8.440	8.599	9.683	20.045	-	98.181

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

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

Description:

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

As this program encompasses multiple projects, the number of installs will not be representative of the number of aircraft affected. Some modifications will be made to each of the 20 B-2 aircraft and other modifications will be made to related B-2 support equipment. Various lead times are required for the different modifications causing different contract and delivery dates.

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

This modification is not a new start. The B-2 low observable efforts previously managed under modifications: MN-110051 LOSSM - Structures; MN-110052 LOSSM - Materials; and MN-110053 LOSSM - Diagnostics are now managed under modification number MN-110035.

Milestone/Development Status

The Low Observable Signature and Supportability Modification program captures a family of projects. Development efforts continue to mature LO materials and technologies. This program has associated Research Development Test and Evaluation funding in PE 010127F.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
	Total Obligation Authority	-	-	8.263	-	8.263	8.440	8.599	9.683	20.045
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	8.263	-	8.263	8.440	8.599	9.683	20.045

<p style="font-size: 24px; color: gray;">(This area is intentionally left blank for additional data or comments.)</p>										
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS

Models of Systems Affected: B-2	Modification Type: Reliability & Maintainability	Related RDT&E PEs: 0101127F
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: LO Upgrades</i>												
A Kits												
Recurring												
LO Upgrades:INSTALL KITS Group A (Active)	- / 20.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.751
<i>Subtotal: Recurring</i>	- / 20.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.751
<i>Subtotal: LO Upgrades</i>	- / 20.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.751
<i>Subtotal: Procurement, All Modification Items</i>	- / 20.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.751
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 2.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.717
Data	- / 5.307	- / -	- / -	- / 10.885	- / -	- / 10.885	- / 10.958	- / 10.397	- / 1.338	- / 3.968	- / -	- / 12.853
OTHER GOVT	- / -	- / -	- / -	- / 16.784	- / -	- / 16.784	- / 16.020	- / 17.398	- / 6.718	- / 9.985	- / -	- / 36.905
SUPPORT-EQUIP	- / 8.787	- / -	- / -	- / 10.285	- / -	- / 10.285	- / 1.089	- / 10.397	- / 1.278	- / 5.597	- / -	- / 17.433
PMA - Other Gov't Costs	- / 5.589	- / -	- / -	- / 10.309	- / -	- / 10.309	- / 10.373	- / 10.407	- / 10.349	- / 10.495	- / -	- / 17.522
<i>Subtotal: Support</i>	- / 22.400	- / -	- / -	- / 8.263	- / -	- / 8.263	- / 8.440	- / 8.599	- / 9.683	- / 20.045	- / -	- / 77.430
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	43.151	-	-	8.263	-	8.263	8.440	8.599	9.683	20.045	-	98.181

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS

Modification Item 1 of 1: LO Upgrades

Manufacturer Information

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

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

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

Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B00200 / B-2A			Modification Number / Title: 110054 / B-2 Flex Strike Phase 1				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	4.214	-	4.214	6.647	6.547	3.771	-	-	21.179
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	4.214	-	4.214	6.647	6.547	3.771	-	-	21.179
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	4.214	-	4.214	6.647	6.547	3.771	-	-	21.179

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

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

Description:

This program, P-3A Mod 110054, B-2 Flex Strike Phase 1, is a new start. FY 2017 is the first year of production funds for B-2 Flexible Strike Phase 1

Current in-flight B-2 weapons management is severely restricted, limiting mission flexibility and combat employment effectiveness. Flexible Strike Phase I will re-host the two distinct parts of the current Stores Management Operational Flight Program (SMOFP) into the Integrated Processor Unit (IPU). The increased memory and throughput of the IPU is required for advanced digital interfaces such as those used by B61-12 weapons. The software upgrade will also enable later simultaneous configurations of multiple weapons carriage capabilities in Phase II, thus providing B-2 with maximum strategic nuclear and conventional strike flexibility including hardened, deeply buried targets. As the only anti-access /area denial penetrating platform capable of carrying the Massive Ordnance Penetrator (MOP), a B-2 with combined carriage of a MOP and 2000 lb or 5000 lb penetrator weapons on the Rotary Launcher Assembly (RLA) will provide unprecedented capability to destroy a wider array of target sets.

Due to B-2 Stores Management Processor memory limitations, the current SMOFP is split into RLA and Smart Bomb Rack Assembly (SBRA) files which cannot be accessed simultaneously. This prevents mixed carriage of the RLA, SBRA, or the MOP Monitor and Control Assembly (MACE) /Carriage and Release Equipment (CARE) on the same mission. Phase 1 will provide Integrated Functional Capability software updates, 20 aircraft cable kits, and updates to associated documents and technical data. Five kits were developed with Research Development Test and Evaluation (RDT&E) funds for four aircraft installs. The fifth development kit will be refurbished and utilized as a production install via procurement funding. Procurement funding will purchase the remaining 15 kits /installs for a total of 20 aircraft.

Milestone/Development Status

Flexible Strike Phase 1 (SMOFP Rehost) was initiated with FY 2011 and FY 2012 Congressional-add funds. The pre-Engineering and Manufacturing Development (EMD) contract was awarded in July 2012. The System Functional Review completed June 2013. The Milestone B decision was approved in June 2014 followed by EMD contract award in August 2014. The Critical Design Review completed February 2015. Production will begin in 2017.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.214	-	4.214	6.647	6.547	3.771	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.214	-	4.214	6.647	6.547	3.771	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B00200 / B-2A					Modification Number / Title: 110054 / B-2 Flex Strike Phase 1			
Models of Systems Affected: B-2				Modification Type: Capability Improvement				Related RDT&E PEs: 0101127F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0101127F	- / 66.357	3 / 40.273	2 / 39.683	- / 44.832	- / -	- / 44.832	- / -	- / -	- / -	- / -	- / -	5 / 191.145	
Procurement													
<i>Modification Item 1 of 1: Aircraft Cable</i>													
A Kits													
Recurring													
Aircraft Cable:INSTALL KITS Group A (Active)	- / -	- / -	- / -	6 / 3.084	- / -	6 / 3.084	9 / 4.085	- / 3.370	- / 1.338	- / -	- / -	15 / 11.877	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 3.084	- / -	- / 3.084	- / 4.085	- / 3.370	- / 1.338	- / -	- / -	- / 11.877	
<i>Subtotal: Aircraft Cable</i>	- / -	- / -	- / -	- / 3.084	- / -	- / 3.084	- / 4.085	- / 3.370	- / 1.338	- / -	- / -	- / 11.877	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 3.084	- / -	- / 3.084	- / 4.085	- / 3.370	- / 1.338	- / -	- / -	- / 11.877	
Support (All Modification Items)													
Change Orders	- / -	- / -	- / -	- / 1.018	- / -	- / 1.018	- / 0.188	- / -	- / 0.530	- / -	- / -	- / 1.736	
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.069	- / -	- / -	- / -	- / -	- / 1.069	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.112	- / -	- / 0.112	- / 0.276	- / 0.297	- / 0.127	- / -	- / -	- / 0.812	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 1.130	- / -	- / 1.130	- / 1.533	- / 0.297	- / 0.657	- / -	- / -	- / 3.617	
Installation													
<i>Modification Item 1 of 1: Aircraft Cable</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.029	8 / 2.880	5 / 1.776	- / -	- / -	16 / 5.685	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.029	8 / 2.880	5 / 1.776	- / -	- / -	16 / 5.685	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	4.214	-	4.214	6.647	6.547	3.771	-	-	21.179	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110054 / B-2 Flex Strike Phase 1

Modification Item 1 of 1: Aircraft Cable

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, CA
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 9

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jul 2017	Jul 2018			
Delivery Dates			Apr 2018	Apr 2019			

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.029	3 / 1.080	- / -	- / -	- / -	6 / 2.109
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.800	5 / 1.776	- / -	- / -	10 / 3.576
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.029	8 / 2.880	5 / 1.776	- / -	- / -	16 / 5.685

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	2	2	2	3	2	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	2	2	2	3	2	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B00200 / B-2A				Modification Number / Title: 110057 / MGUE				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	4.066	-	4.066	6.799	2.691	-	-	-	13.556
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	4.066	-	4.066	6.799	2.691	-	-	-	13.556
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	4.066	-	4.066	6.799	2.691	-	-	-	13.556

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

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

Description:

This program, P-3A Mod 110057, MGUE, is a new start. FY 2017 is the first year of production funds for B-2 MGUE.

The MGUE (Military GPS User Equipment) program is a Department of Defense (DoD) initiative to upgrade the existing military GPS service to provide enhanced satellite acquisition and tracking, improved navigation accuracy and integrity monitoring, and increased security. Programs using military GPS services have recently been directed to integrate upgraded MGUE into applicable platforms and perform testing necessary for operational approval. The B-2 will serve as the lead platform for this GPS upgrade.

The B-2 MGUE integration program will replace the existing B-2 Miniaturized Airborne GPS Receiver (MAGR) and GPS antenna with a new M-Code GPS receiver (MAGR-M) and an 8-element Controlled Reception Pattern Antenna (CRPA). Minor modifications will be made to aircraft Operational Flight Program (OFP) software and lab software to support processing, display, and operational testing involved with reception of the new satellite signals. Hardware modifications will include integration of the government furnished equipment MAGR-M and the GPS antenna, including associated Group A equipment.

The program will provide Integrated Functional Capability software updates, 20 aircraft kits, and updates to associated documents and technical data. Five kits were developed with Research Development Test and Evaluation (RDT&E) funds for four aircraft installs. The fifth development kit will be refurbished and utilized as a production install via procurement funding. Procurement funding will purchase the remaining 15 kits/installs for a total of 20 aircraft.

Milestone/Development Status

As a threshold platform, the MGUE program is funding the B-2 integration. Initial planning was initiated with FY2014 funds. The full integration contract was awarded in November 2015. The System Requirements Review completed August 2015. The program is planned to begin developmental flight test in 2016. Production will begin in 2017.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.066	-	4.066	6.799	2.691	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.066	-	4.066	6.799	2.691	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B00200 / B-2A					Modification Number / Title: 110057 / MGUE			
Models of Systems Affected: B-2				Modification Type: Capability Improvement				Related RDT&E PEs: 0101127F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Antenna Kit</i>													
A Kits													
Recurring													
Antenna Kit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	6 / 0.082	- / -	6 / 0.082	9 / 0.136	- / -	- / -	- / -	- / -	15 / 0.218	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.082	- / -	- / 0.082	- / 0.136	- / -	- / -	- / -	- / -	- / 0.218	
B Kits													
Recurring													
Antenna Kit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	6 / 3.845	- / -	6 / 3.845	9 / 4.377	- / -	- / -	- / -	- / -	15 / 8.222	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 3.845	- / -	- / 3.845	- / 4.377	- / -	- / -	- / -	- / -	- / 8.222	
<i>Subtotal: Antenna Kit</i>	- / -	- / -	- / -	- / 3.927	- / -	- / 3.927	- / 4.513	- / -	- / -	- / -	- / -	- / 8.440	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 3.927	- / -	- / 3.927	- / 4.513	- / -	- / -	- / -	- / -	- / 8.440	
Support (All Modification Items)													
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.139	- / -	- / 0.139	- / 0.268	- / 0.106	- / -	- / -	- / -	- / 0.513	
Change Orders	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 0.139	- / -	- / 0.139	- / 0.268	- / 0.106	- / -	- / -	- / -	- / 0.513	
Installation													
<i>Modification Item 1 of 1: Antenna Kit</i>													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.018	10 / 2.585	- / -	- / -	- / -	16 / 4.603	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.018	10 / 2.585	- / -	- / -	- / -	16 / 4.603	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	4.066	-	4.066	6.799	2.691	-	-	-	13.556	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110057 / MGUE

Modification Item 1 of 1: Antenna Kit

Manufacturer Information

Manufacturer Name: Northrup Grumman	Manufacturer Location: El Segundo
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017	Jan 2018			
Delivery Dates			Aug 2017	Aug 2018			

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.018	- / -	- / -	- / -	- / -	6 / 2.018
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.585	- / -	- / -	- / -	10 / 2.585
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.018	10 / 2.585	- / -	- / -	- / -	16 / 4.603

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	3	3	3	1	-	-	-	-	-	-	-	-	-	-	-	16
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	1	-	-	-	-	-	-	-	-	-	-	-	16

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B00200 / B-2A			Modification Number / Title: 8882 / Common Very Low Frequency Terminal				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	19.190	18.592	-	18.592	9.332	4.009	-	-	-	51.123
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	19.190	18.592	-	18.592	9.332	4.009	-	-	-	51.123
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	19.190	18.592	-	18.592	9.332	4.009	-	-	-	51.123
<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>)	-	-	-	2.054	-	2.054	2.595	-	-	-	-	4.649
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Common Very Low Frequency (VLF) Receiver (CVR) Increment 1 program provides the B-2 with receive-only, very low bandwidth, secure, survivable strategic communications via a nuclear hardened terminal, antenna, and human-machine interface. This supports the B-2 requirement for media diversity and the B-2 strategic mission, and ensures nuclear command and control of the B-2 fleet. The uncertain usable life span of the MILSTAR satellite constellation and the B-2 Ultra High Frequency secure waveform drive a need for VLF capability in the 2017 time frame.

CVR Increment 1 will deliver VLF capability needed for B-2 strategic nuclear command and control. This program provides the framework and flexibility to enable future increments for the remainder of the strategic airborne fleet as well as a bridge to future VLF upgrades to the B-2.

The program's acquisition strategy is based on modifying and qualifying an existing terminal. This approach supports timely integration and installation onto the B-2 platform while leveraging existing technology and mature systems to reduce cost and development schedule. During development, four production representative kits will be procured to support integrated development / operational test. During production, the program will optimize cost efficiency of FY16 and FY17 lot buys by enabling continuous production of the Group B kits. To mitigate obsolescence risk and ensure availability of certified nuclear hardened components and sub-assemblies, the program will procure all components and /or sub-assemblies that are subject to nuclear screening in one production buy and procure lifetime buys of other items as needed. The Milestone Decision Authority may authorize the purchase of material with long lead times prior to the formal Milestone C decision, if such purchases are justified to protect schedule and have low risk of configuration changes.

Milestone/Development Status

Common Very Low Frequency Receiver conducted a Milestone B decision in July 2013. Engineering and Manufacturing Development contracts were awarded 18 Dec 13 for Group B line replaceable units (LRUs) and 3 June 14 for Group A cabling, technical data, installation hardware, and aircraft installation. The Government has assumed responsibility for system integration and installed performance. Technical progress continues with successful Government led technical reviews occurring as scheduled. Reviews include: a System Functional Review conducted in May 2014, the Preliminary Design Review conducted in November 2014, and a Critical Design Review held in May 2015. Hardware qualification completion is expected to occur in second quarter of Fiscal Year 2016. Additionally, certifications, flight test install, and combined DT/OT are expected to occur in third and fourth quarter of Fiscal Year 2016. The Milestone C decision is expected in fourth quarter Fiscal Year 2016.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	19.190	18.592	-	18.592	9.332	4.009	-	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: B00200 / B-2A				Modification Number / Title: 8882 / Common Very Low Frequency Terminal			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	-	19.190	18.592	-	18.592	9.332	4.009	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B00200 / B-2A					Modification Number / Title: 8882 / Common Very Low Frequency Terminal			
Models of Systems Affected: B-2				Modification Type: Capability Improvement				Related RDT&E PEs: 0101127F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0101127F	- / 19.254	1 / 48.273	3 / 42.070	- / 16.709	- / -	- / 16.709	- / -	- / -	- / -	- / -	- / -	4 / 126.306	
Procurement													
Modification Item 1 of 1: Antenna													
A Kits													
Recurring													
Antenna:INSTALL KITS Group A (Active)	- / -	- / -	7 / 5.480	9 / 6.698	- / -	9 / 6.698	- / -	- / -	- / -	- / -	- / -	16 / 12.178	
Subtotal: Recurring	- / -	- / -	- / 5.480	- / 6.698	- / -	- / 6.698	- / -	- / -	- / -	- / -	- / -	- / 12.178	
B Kits													
Recurring													
Antenna:EQUIPMENT Group B (Active)	- / -	- / -	7 / 8.952	9 / 9.765	- / -	9 / 9.765	- / -	- / -	- / -	- / -	- / -	16 / 18.717	
Subtotal: Recurring	- / -	- / -	- / 8.952	- / 9.765	- / -	- / 9.765	- / -	- / -	- / -	- / -	- / -	- / 18.717	
Subtotal: Antenna	- / -	- / -	- / 14.432	- / 16.463	- / -	- / 16.463	- / -	- / -	- / -	- / -	- / -	- / 30.895	
Subtotal: Procurement, All Modification Items	- / -	- / -	- / 14.432	- / 16.463	- / -	- / 16.463	- / -	- / -	- / -	- / -	- / -	- / 30.895	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / -	- / 1.458	- / 1.480	- / -	- / 1.480	- / 1.057	- / 10.185	- / -	- / -	- / -	- / 14.180	
SIM/TRAINER	- / -	- / -	- / 2.511	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.511	
PMA - Other Gov't Costs	- / -	- / -	- / 0.789	- / 0.649	- / -	- / 0.649	- / 0.368	- / 0.161	- / -	- / -	- / -	- / 1.967	
Subtotal: Support	- / -	- / -	- / 4.758	- / 2.129	- / -	- / 2.129	- / 1.425	- / 0.346	- / -	- / -	- / -	- / 8.658	
Installation													
Modification Item 1 of 1: Antenna	- / -	- / -	- / -	- / -	- / -	- / -	8 / 7.907	8 / 3.663	- / -	- / -	- / -	16 / 11.570	
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	8 / 7.907	8 / 3.663	- / -	- / -	- / -	16 / 11.570	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	19.190	18.592	-	18.592	9.332	4.009	-	-	-	51.123	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 8882 / Common Very Low Frequency Terminal

Modification Item 1 of 1: Antenna

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 13

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Sep 2016	Aug 2017				
Delivery Dates		Oct 2017	Sep 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	7 / 6.919	- / -	- / -	- / -	- / -	7 / 6.919
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.988	8 / 3.663	- / -	- / -	- / -	9 / 4.651
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	8 / 7.907	8 / 3.663	- / -	- / -	- / -	16 / 11.570

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	3	3	2	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	1	2	3	2	2	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft	P-1 Line Item Number / Title: B01B00 / B-1B
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0101126F	Other Related Program Elements: 0101126F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	836.908	219.869	114.119	116.319	-	116.319	97.791	93.401	35.551	69.714	-	1,583.672
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	836.908	219.869	114.119	116.319	-	116.319	97.791	93.401	35.551	69.714	-	1,583.672
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	836.908	219.869	114.119	116.319	-	116.319	97.791	93.401	35.551	69.714	-	1,583.672

(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-1B Lancer is a swing-wing, supersonic, long-range, conventional bomber. It carries the largest payload of both guided and unguided weapons in the Air Force inventory. The multi-mission B-1B is the backbone of America's long-range bomber force and can rapidly deliver massive quantities of precision and non-precision weapons against any adversary, anywhere in the world, at any time. The Air Force maintains 62 B-1B's in its inventory. The B-1B averages 9,035 airframe hours as of December, 2015. The current service life extends beyond 2040. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. The specific modifications budgeted and programmed are below.

FY15 funding totals include \$91.879M for Overseas Contingency Operations.

The FY 2017 funding request was reduced by \$6.036 million to account for the availability of prior year execution balances.

This line item funds modifications to the B-1B aircraft and associated simulators and equipment. Funding for this exhibit contained in PE 0101126F.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

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

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	4281 / Self Contained Attitude Indicator (Capability Improvement)			- / -	- / -	- / 6.562	- / -	- / -	- / -
P-40a***	4285 / Gyro Stabilization System (GSS) (Reliability & Maintainability)			- / 62.419	- / 0.701	- / -	- / -	- / -	- / -
P-40a***	4286 / Inertial Navigation System (INS) (Capability Improvement)			- / 54.946	- / 3.163	- / -	- / -	- / -	- / -
P-40a***	4291 / B-1 TRAINING SUPPORT (Capability Improvement)			- / 1.682	- / 0.427	- / 0.434	- / 0.438	- / -	- / 0.438
P-40a***	6882 / Digital Communications (Other)			- / 38.842	- / 0.142	- / 0.100	- / -	- / -	- / -
P-40a***	8411 / RADAR IMPROVEMENT UPGRADE (Reliability & Maintainability)			- / 156.917	- / 1.230	- / -	- / -	- / -	- / -
P-40a***	8423 / B-1 Link 16 Crypto (Other)			- / -	- / 0.223	- / 1.011	- / 1.380	- / -	- / 1.380
P-40a***	92294 / LAPTOP CONTROLLED TARGETING POD (Capability Improvement)			- / 68.699	- / 3.638	- / 0.200	- / 0.200	- / -	- / 0.200
P-40a***	92298 / B-1 Modified Antenna Select (Capability Improvement)			- / -	- / 2.019	- / -	- / -	- / -	- / -
P-40a***	92299 / F101 Engine SLEP (Service Life Extension)			- / 49.000	- / 89.860	- / -	- / -	- / -	- / -
P-40a***	92314 / MIDS-JTRS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	92315 / Integrated Targeting Pod/Computer (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 3.982	- / 0.990	- / 0.100	- / 0.100	- / -	- / 0.100
P-3a	4280 / Fully Integrated Data Links (Capability Improvement)			- / 228.106	- / 52.484	- / 47.547	- / 56.773	- / -	- / 56.773
P-3a	4284 / CITS UPGRADE (Service Life Extension)			- / 59.482	- / 16.954	- / 18.650	- / 14.637	- / -	- / 14.637
P-3a	8971 / VERTICAL SITUATION DISPLAYS (Service Life Extension)			- / 112.833	- / 48.038	- / 39.515	- / 42.791	- / -	- / 42.791
P-40	Total Gross/Weapon System Cost			- / 836.908	- / 219.869	- / 114.119	- / 116.319	- / -	- / 116.319

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	4281 / Self Contained Attitude Indicator (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 6.562
P-40a***	4285 / Gyro Stabilization System (GSS) (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 63.120
P-40a***	4286 / Inertial Navigation System (INS) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 58.109
P-40a***	4291 / B-1 TRAINING SUPPORT (Capability Improvement)			- / 0.447	- / 0.454	- / 0.462	- / 0.471	- / -	- / 4.815
P-40a***	6882 / Digital Communications (Other)			- / -	- / -	- / -	- / -	- / -	- / 39.084
P-40a***	8411 / RADAR IMPROVEMENT UPGRADE (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 158.147
P-40a***	8423 / B-1 Link 16 Crypto (Other)			- / 0.535	- / 0.794	- / -	- / -	- / -	- / 3.943
P-40a***	92294 / LAPTOP CONTROLLED TARGETING POD (Capability Improvement)			- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / -	- / 73.537
P-40a***	92298 / B-1 Modified Antenna Select (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 2.019
P-40a***	92299 / F101 Engine SLEP (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / 138.860
P-40a***	92314 / MIDS-JTRS (Capability Improvement)			- / 13.226	- / 2.045	- / 8.896	- / 47.001	- / -	- / 71.168
P-40a***	92315 / Integrated Targeting Pod/Computer (Capability Improvement)			- / 6.615	- / 2.044	- / 4.998	- / 0.655	- / -	- / 14.312
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / 5.572

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

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

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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	4280 / Fully Integrated Data Links (Capability Improvement)			- / 29.810	- / 33.094	- / 11.284	- / 11.493	- / -	- / 470.591
P-3a	4284 / CITS UPGRADE (Service Life Extension)			- / 14.185	- / 15.750	- / 1.073	- / 1.099	- / -	- / 141.830
P-3a	8971 / VERTICAL SITUATION DISPLAYS (Service Life Extension)			- / 32.673	- / 38.920	- / 8.538	- / 8.695	- / -	- / 332.003
P-40	Total Gross/Weapon System Cost			- / 97.791	- / 93.401	- / 35.551	- / 69.714	- / -	- / 1,583.672

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B01B00 / B-1B				Modification Number / Title: 4280 / Fully Integrated Data Links				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	228.106	52.484	47.547	56.773	-	56.773	29.810	33.094	11.284	11.493	-	470.591
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	228.106	52.484	47.547	56.773	-	56.773	29.810	33.094	11.284	11.493	-	470.591
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	228.106	52.484	47.547	56.773	-	56.773	29.810	33.094	11.284	11.493	-	470.591

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

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

Description:

Fully Integrated Data Link (FIDL) is a net-centric warfare upgrade enabling full B-1B participation in joint combat and time-critical targeting operations. FIDL adds line-of-sight and beyond line-of-sight command and control (C2) connectivity through the addition of Link 16 and Joint Range Extension (JRE) data link. Modification funds will procure and install Group A and B kits for the FIDL upgrade to the B-1B. This modification provides two tactical data processors and five multi-function displays for the B-1B aft crew stations. This modification also adds an Ethernet infrastructure enabling rapid airborne re-targeting by high-speed transfer of aircraft information to all four crew stations and on-board weapons. FIDL installations are scheduled concurrently with Central Integrated Test System (CITS) and Vertical Situation Display Upgrade (VSDU) to reduce installation costs, aircraft downtime, and to keep fielded aircraft configurations to a minimum for aircrew training, maintenance, and operational deployment efficiencies. Modification funding is being used to alleviate Diminishing Manufacturing Sources (DMS) and Material Shortages (DMSMS) issues. DMSMS activities can include, but are not limited to, life of type buy or minor redesign. Procurement modification funding will be used to establish depot repair capability and for Interim Contractor Support (ICS). Activities comprised in the equipment non-recurring line include, but are not limited to, production test equipment and tooling. Group B non-recurring also includes Systems Engineering Program Management (SEPM).

Requirement list in ORD: B-1B Conventional Mission Upgrade Program (26 Jan 05) (ORD CAF-357-92 (SAC 007-92) I/II-A, Rev 2, Annex A).

Milestone/Development Status

The EMD phase completed October 2011.

Two aircraft were modified using Research Development Test and Evaluation (RDT&E) funding in PE 0604226F / 0101126F.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B01B00 / B-1B					Modification Number / Title: 4280 / Fully Integrated Data Links			
Models of Systems Affected: B-1B				Modification Type: Capability Improvement				Related RDT&E PEs: 0101126F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0101126F	- / 162.988	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 162.988	
Procurement													
Modification Item 1 of 1: IBS													
A Kits													
Recurring													
IBS:INSTALL KITS Group A (Active)	33 / 16.007	13 / 4.699	13 / 5.235	1 / 0.430	- / -	1 / 0.430	- / -	- / -	- / -	- / -	- / -	60 / 26.371	
<i>Subtotal: Recurring</i>	- / 16.007	- / 4.699	- / 5.235	- / 0.430	- / -	- / 0.430	- / -	- / -	- / -	- / -	- / -	- / 26.371	
B Kits													
Recurring													
IBS:EQUIPMENT Group B (Active)	33 / 83.682	13 / 25.570	13 / 26.452	1 / 3.088	- / -	1 / 3.088	- / -	- / -	- / -	- / -	- / -	60 / 138.792	
<i>Subtotal: Recurring</i>	- / 83.682	- / 25.570	- / 26.452	- / 3.088	- / -	- / 3.088	- / -	- / -	- / -	- / -	- / -	- / 138.792	
<i>Subtotal: IBS</i>	- / 99.689	- / 30.269	- / 31.687	- / 3.518	- / -	- / 3.518	- / -	- / -	- / -	- / -	- / -	- / 165.163	
<i>Subtotal: Procurement, All Modification Items</i>	- / 99.689	- / 30.269	- / 31.687	- / 3.518	- / -	- / 3.518	- / -	- / -	- / -	- / -	- / -	- / 165.163	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 46.158	- / -	- / 0.256	- / 8.044	- / -	- / 8.044	- / -	- / -	- / -	- / -	- / -	- / 54.458	
Change Orders	- / 14.467	- / 2.591	- / 1.607	- / 6.916	- / -	- / 6.916	- / 1.103	- / 1.607	- / -	- / 1.476	- / -	- / 29.767	
Data	- / 2.069	- / 0.357	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 2.000	- / -	- / 0.700	- / -	- / 5.201	
SIM/TRAINER	0 / 4.965	1 / 0.806	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.771	
SUPPORT-EQUIP	- / 22.558	- / 6.156	- / 1.895	- / 18.550	- / -	- / 18.550	- / 8.921	- / 7.910	- / 4.259	- / 4.192	- / -	- / 74.441	
ICS-Material	- / 6.725	- / 1.575	- / -	- / 4.765	- / -	- / 4.765	- / 4.150	- / 4.355	- / 3.250	- / 2.750	- / -	- / 27.570	
OTHER GOVT	- / 11.689	- / 0.645	- / 0.260	- / 0.124	- / -	- / 0.124	- / -	- / 0.788	- / 1.050	- / 1.050	- / -	- / 15.606	
PMA - Contractor Services	- / 4.005	- / 1.593	- / 1.577	- / 3.995	- / -	- / 3.995	- / 4.075	- / 4.100	- / 2.350	- / 1.150	- / -	- / 22.845	
PMA - Other Gov't Costs	- / 0.135	- / 0.133	- / 0.453	- / 0.461	- / -	- / 0.461	- / 0.469	- / 0.717	- / 0.375	- / 0.175	- / -	- / 2.918	
<i>Subtotal: Support</i>	0 / 112.771	1 / 13.856	- / 6.073	- / 42.880	- / -	- / 42.880	- / 18.743	- / 21.477	- / 11.284	- / 11.493	- / -	1 / 238.577	
Installation													
Modification Item 1 of 1: IBS	11 / 15.646	9 / 8.359	10 / 9.787	10 / 10.375	- / -	10 / 10.375	10 / 11.067	10 / 11.617	- / -	- / -	- / -	60 / 66.851	
<i>Subtotal: Installation</i>	11 / 15.646	9 / 8.359	10 / 9.787	10 / 10.375	- / -	10 / 10.375	10 / 11.067	10 / 11.617	- / -	- / -	- / -	60 / 66.851	
Total													
Total Cost (Procurement + Support + Installation)	228.106	52.484	47.547	56.773	-	56.773	29.810	33.094	11.284	11.493	-	470.591	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 4280 / Fully Integrated Data Links

Modification Item 1 of 1: IBS

Manufacturer Information

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

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015	Feb 2016	Feb 2017				
Delivery Dates	Feb 2017	Oct 2017	Oct 2018				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 15.646	9 / 8.359	10 / 9.787	3 / 3.094	- / -	3 / 3.094	- / -	- / -	- / -	- / -	- / -	33 / 36.886
FY 2015	- / -	- / -	- / -	7 / 7.281	- / -	7 / 7.281	6 / 6.603	- / -	- / -	- / -	- / -	13 / 13.884
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.464	9 / 10.455	- / -	- / -	- / -	13 / 14.919
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.162	- / -	- / -	- / -	1 / 1.162
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 15.646	9 / 8.359	10 / 9.787	10 / 10.375	- / -	10 / 10.375	10 / 11.067	10 / 11.617	- / -	- / -	- / -	60 / 66.851

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	11	2	2	2	3	3	2	3	2	2	3	2	3	2	3	2	3	2	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
Out	4	3	3	3	2	3	2	3	2	3	3	2	2	3	2	3	2	3	2	3	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-	60

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B01B00 / B-1B			Modification Number / Title: 4284 / CITS UPGRADE				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	59.482	16.954	18.650	14.637	-	14.637	14.185	15.750	1.073	1.099	-	141.830
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	59.482	16.954	18.650	14.637	-	14.637	14.185	15.750	1.073	1.099	-	141.830
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	59.482	16.954	18.650	14.637	-	14.637	14.185	15.750	1.073	1.099	-	141.830
<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:

Central Integrated Test System (CITS) is the B-1B on-board diagnostic system that monitors aircraft avionics and mechanical systems on the ground and during flight, reporting faults to aircrew and maintainers. The current CITS suffers from Diminishing Manufacturing Source (DMS) issues with the potential to ground aircraft. Current CITS processor is also at maximum memory/throughput, inhibiting fault detection and isolation for current systems and future B-1B upgrades. Modification funds will procure and install Group A and Group B kits for the CITS upgrade to the B-1B. This modification provides a new CITS Dedicated Processor (CDP), upgraded Multi-Functional Display (MFD), and re-hosted CITS software, resulting in enhanced diagnostic capabilities, improved turnaround time, and reduced maintenance costs. CITS installations are scheduled concurrently with the Fully Integrated Data Link (FIDL) and the Vertical Situation Display Upgrade (VSDU) to reduce installation costs, aircraft downtime, and to keep fielded aircraft configurations to a minimum for aircrew training, maintenance, and operational deployment efficiencies. Modification funding is being used to alleviate Diminishing Manufacturing Sources and Material Shortages (DMSMS). DMSMS activities can include, but are not limited to, life of type buy or minor redesign. Procurement modification funding will be used to establish depot repair capability and for Interim Contractor Support (ICS). Activities comprised in the equipment non-recurring line include, but are not limited to, production test equipment and tooling. Group B non-recurring also includes Systems Engineering Program Management (SEPM).

Requirement listed in ORD: B-1B Conventional Mission Upgrade Program (26 Jan 05) (ORD CAF-357-92 (SAC 007-92) I/II-A, Rev 2, Annex A).

Milestone/Development Status

The Engineering & Manufacturing Development phase completed Oct 10. Two aircraft were modified using Research Development Test and Evaluation (RDT&E) funding in PE 0604226F / 0101126F.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B01B00 / B-1B					Modification Number / Title: 4284 / CITS UPGRADE			
Models of Systems Affected: B-1B				Modification Type: Service Life Extension				Related RDT&E PEs: 0101126F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0101126F	- / 149.635	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 149.635	
Procurement													
Modification Item 1 of 1: IBS (2)													
A Kits													
Recurring													
IBS:INSTALL KITS Group A (Active)	33 / 3.366	13 / 1.031	13 / 1.069	1 / 0.218	- / -	1 / 0.218	- / -	- / -	- / -	- / -	- / -	60 / 5.684	
<i>Subtotal: Recurring</i>	- / 3.366	- / 1.031	- / 1.069	- / 0.218	- / -	- / 0.218	- / -	- / -	- / -	- / -	- / -	- / 5.684	
B Kits													
Recurring													
IBS:EQUIPMENT Group B (Active)	33 / 15.651	13 / 4.792	13 / 4.970	1 / 1.013	- / -	1 / 1.013	- / -	- / -	- / -	- / -	- / -	60 / 26.426	
<i>Subtotal: Recurring</i>	- / 15.651	- / 4.792	- / 4.970	- / 1.013	- / -	- / 1.013	- / -	- / -	- / -	- / -	- / -	- / 26.426	
<i>Subtotal: IBS (2)</i>	- / 19.017	- / 5.823	- / 6.039	- / 1.231	- / -	- / 1.231	- / -	- / -	- / -	- / -	- / -	- / 32.110	
<i>Subtotal: Procurement, All Modification Items</i>	- / 19.017	- / 5.823	- / 6.039	- / 1.231	- / -	- / 1.231	- / -	- / -	- / -	- / -	- / -	- / 32.110	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 18.719	- / 0.925	- / 1.400	- / 1.269	- / -	- / 1.269	- / 2.415	- / 1.746	- / -	- / -	- / -	- / 26.474	
Change Orders	- / 2.458	- / -	- / 0.625	- / 1.299	- / -	- / 1.299	- / 1.508	- / 1.190	- / -	- / -	- / -	- / 7.080	
Data	- / 1.293	- / 0.011	- / 0.011	- / 0.011	- / -	- / 0.011	- / 0.011	- / 1.408	- / 0.020	- / 0.310	- / -	- / 3.075	
SIM/TRAINER	0 / 2.408	- / 0.269	- / -	- / 1.209	- / -	- / 1.209	- / -	- / -	- / -	- / -	- / -	- / 3.886	
SUPPORT-EQUIP	- / 6.280	- / 4.196	- / 1.000	- / 3.006	- / -	- / 3.006	- / 2.654	- / 3.706	- / -	- / -	- / -	- / 20.842	
ICS-Material	- / 0.902	- / 0.769	- / 0.895	- / 0.939	- / -	- / 0.939	- / 0.995	- / 1.055	- / 0.900	- / 0.609	- / -	- / 7.064	
OTHER GOVT	- / 1.827	- / 0.794	- / 0.446	- / 0.504	- / -	- / 0.504	- / 1.117	- / 0.858	- / 0.153	- / 0.180	- / -	- / 5.879	
PMA - Contractor Services	- / -	- / -	- / 3.357	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.357	
PMA - Other Gov't Costs	- / 0.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.080	
<i>Subtotal: Support</i>	0 / 33.967	- / 6.964	- / 7.734	- / 8.237	- / -	- / 8.237	- / 8.700	- / 9.963	- / 1.073	- / 1.099	- / -	- / 77.737	
Installation													
Modification Item 1 of 1: IBS (2)	11 / 6.498	9 / 4.167	10 / 4.877	10 / 5.169	- / -	10 / 5.169	10 / 5.485	10 / 5.787	- / -	- / -	- / -	60 / 31.983	
<i>Subtotal: Installation</i>	11 / 6.498	9 / 4.167	10 / 4.877	10 / 5.169	- / -	10 / 5.169	10 / 5.485	10 / 5.787	- / -	- / -	- / -	60 / 31.983	
Total													
Total Cost (Procurement + Support + Installation)	59.482	16.954	18.650	14.637	-	14.637	14.185	15.750	1.073	1.099	-	141.830	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 4284 / CITS UPGRADE

Modification Item 1 of 1: IBS (2)

Manufacturer Information

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

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015	Feb 2016	Feb 2017				
Delivery Dates	Feb 2017	Oct 2017	Oct 2018				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 6.498	9 / 4.167	10 / 4.877	3 / 1.541	- / -	3 / 1.541	- / -	- / -	- / -	- / -	- / -	33 / 17.083
FY 2015	- / -	- / -	- / -	7 / 3.628	- / -	7 / 3.628	6 / 3.271	- / -	- / -	- / -	- / -	13 / 6.899
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.214	9 / 5.208	- / -	- / -	- / -	13 / 7.422
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.579	- / -	- / -	- / -	1 / 0.579
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 6.498	9 / 4.167	10 / 4.877	10 / 5.169	- / -	10 / 5.169	10 / 5.485	10 / 5.787	- / -	- / -	- / -	60 / 31.983

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	11	2	2	2	3	3	2	3	2	2	3	2	3	2	3	2	3	2	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	4	1	1	2	2	5	2	3	2	3	3	2	3	2	3	2	3	2	3	2	3	2	3	2	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B01B00 / B-1B				Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	112.833	48.038	39.515	42.791	-	42.791	32.673	38.920	8.538	8.695	-	332.003
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	112.833	48.038	39.515	42.791	-	42.791	32.673	38.920	8.538	8.695	-	332.003
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	112.833	48.038	39.515	42.791	-	42.791	32.673	38.920	8.538	8.695	-	332.003
<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:

Vertical Situation Display Upgrade (VSDU) is a safety-critical program to replace B-1B pilot and co-pilot primary flight displays and associated flight instruments. The current VSDs are monochrome cathode ray tube displays, which along with the "steam gauge" primary flight instruments, are experiencing Diminishing Manufacturing Sources (DMS) issues with the potential to ground aircraft. Spares are no longer procurable due to obsolescence. Modification funds will procure and install Group A and Group B kits for the VSDU upgrade to the B-1B. This modification installs two 8"x6" color displays at pilot and co-pilot stations to provide Primary Flight Information (PFI) and backup PFI to meet flight safety standards. These displays also provide front crew situational awareness from the Fully Integrated Data Link (FIDL) enhancing the ability to avoid threats and strike emerging targets. VSDU installations are scheduled concurrently with Central Integrated Test System (CITS) and FIDL to reduce installation costs, aircraft downtime, and to keep fielded aircraft configurations to a minimum for aircrew training, maintenance, and operational deployment efficiencies. Modification funding will be used for DMS and Material Shortages (DMSMS). DMSMS activities can include, but are not limited to, life of type buy or minor redesign. Procurement modification funding will be used to establish depot repair capability and for Interim Contractor Support (ICS). Activities comprised in the equipment non-recurring line include, but are not limited to, production test equipment and tooling. Group B non-recurring also includes Systems Engineering Program Management (SEPM).

Requirement listed in ORD: B-1B Conventional Mission Upgrade Program (26 Jan 05) (ORD CAF-357-92 (SAC 007-92) I/II-A, Rev 2, Annex A).

Milestone/Development Status

The Engineering & Manufacturing Development (EMD) phase completed in March 2014. Two aircraft were modified as a part of the development program and funded with RDT&E funding in PE 0604226F / 0101126F.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B01B00 / B-1B					Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS			
Models of Systems Affected: B-1B				Modification Type: Service Life Extension				Related RDT&E PEs: 0101126F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0101126F	- / 166.669	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 166.669	
Procurement													
Modification Item 1 of 1: IBS (3)													
A Kits													
Recurring													
IBS:INSTALL KITS Group A (Active)	33 / 9.049	13 / 2.400	13 / 1.886	1 / 0.234	- / -	1 / 0.234	- / -	- / -	- / -	- / -	- / -	60 / 13.569	
Subtotal: Recurring	- / 9.049	- / 2.400	- / 1.886	- / 0.234	- / -	- / 0.234	- / -	- / -	- / -	- / -	- / -	- / 13.569	
B Kits													
Recurring													
IBS:EQUIPMENT Group B (Active)	33 / 42.076	13 / 11.161	13 / 8.769	1 / 1.089	- / -	1 / 1.089	- / -	- / -	- / -	- / -	- / -	60 / 63.095	
Subtotal: Recurring	- / 42.076	- / 11.161	- / 8.769	- / 1.089	- / -	- / 1.089	- / -	- / -	- / -	- / -	- / -	- / 63.095	
Subtotal: IBS (3)	- / 51.125	- / 13.561	- / 10.655	- / 1.323	- / -	- / 1.323	- / -	- / -	- / -	- / -	- / -	- / 76.664	
Subtotal: Procurement, All Modification Items	- / 51.125	- / 13.561	- / 10.655	- / 1.323	- / -	- / 1.323	- / -	- / -	- / -	- / -	- / -	- / 76.664	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 18.500	- / -	- / 4.769	- / 8.661	- / -	- / 8.661	- / 3.780	- / 2.225	- / -	- / -	- / -	- / 37.935	
Change Orders	- / 5.676	- / -	- / -	- / 2.906	- / -	- / 2.906	- / 2.396	- / 3.775	- / 1.605	- / 1.605	- / -	- / 17.963	
Data	- / 1.503	- / 0.015	- / 0.015	- / 0.015	- / -	- / 0.015	- / 0.015	- / 2.335	- / 1.600	- / 1.653	- / -	- / 17.151	
SIM/TRAINER	1 / 3.686	- / -	- / -	1 / 1.994	- / -	1 / 1.994	- / -	- / -	- / -	- / -	- / -	2 / 5.680	
SUPPORT-EQUIP	- / 7.086	- / 3.057	- / 5.420	- / 6.565	- / -	- / 6.565	- / 6.785	- / 5.718	- / -	- / -	- / -	- / 34.631	
ICS-Material	- / 2.298	- / 3.550	- / 3.404	- / 4.675	- / -	- / 4.675	- / 4.755	- / 4.995	- / 4.003	- / 2.335	- / -	- / 30.015	
OTHER GOVT	- / 2.924	- / 17.076	- / 2.630	- / 3.268	- / -	- / 3.268	- / 10.686	- / 4.898	- / 1.330	- / 3.102	- / -	- / 35.914	
PMA - Contractor Services	- / 2.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.820	
PMA - Other Gov't Costs	- / 0.411	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.411	
Subtotal: Support	1 / 44.904	- / 23.698	- / 16.238	1 / 28.084	- / -	1 / 28.084	- / 18.417	- / 23.946	- / 8.538	- / 8.695	- / -	2 / 172.520	
Installation													
Modification Item 1 of 1: IBS (3)	11 / 16.804	9 / 10.779	10 / 12.622	10 / 13.384	- / -	10 / 13.384	10 / 14.256	10 / 14.974	- / -	- / -	- / -	60 / 82.819	
Subtotal: Installation	11 / 16.804	9 / 10.779	10 / 12.622	10 / 13.384	- / -	10 / 13.384	10 / 14.256	10 / 14.974	- / -	- / -	- / -	60 / 82.819	
Total													
Total Cost (Procurement + Support + Installation)	112.833	48.038	39.515	42.791	-	42.791	32.673	38.920	8.538	8.695	-	332.003	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS

Modification Item 1 of 1: IBS (3)

Manufacturer Information

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

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015	Feb 2016	Feb 2017				
Delivery Dates	Feb 2017	Oct 2017	Oct 2018				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 16.804	9 / 10.779	10 / 12.622	3 / 3.992	- / -	3 / 3.992	- / -	- / -	- / -	- / -	- / -	33 / 44.197
FY 2015	- / -	- / -	- / -	7 / 9.392	- / -	7 / 9.392	6 / 8.499	- / -	- / -	- / -	- / -	13 / 17.891
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.757	9 / 13.477	- / -	- / -	- / -	13 / 19.234
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.497	- / -	- / -	- / -	1 / 1.497
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 16.804	9 / 10.779	10 / 12.622	10 / 13.384	- / -	10 / 13.384	10 / 14.256	10 / 14.974	- / -	- / -	- / -	60 / 82.819

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	11	2	2	2	3	3	2	3	2	2	3	2	3	2	3	2	3	2	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	4	3	3	3	2	3	2	3	2	3	3	2	2	3	2	3	2	3	2	3	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft	P-1 Line Item Number / Title: B05200 / B-52
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0101113F	Other Related Program Elements: 0101113F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	172.382	162.114	144.912	109.020	-	109.020	133.115	105.523	94.809	96.918	-	1,018.793
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	172.382	162.114	144.912	109.020	-	109.020	133.115	105.523	94.809	96.918	-	1,018.793
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	172.382	162.114	144.912	109.020	-	109.020	133.115	105.523	94.809	96.918	-	1,018.793

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

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

Description:

This line item funds modifications to the B-52H aircraft. The B-52H strategic bomber maintains nuclear and conventional taskings. The Air Force maintains 76 B-52Hs in its inventory. The B-52H averages 18,771 airframe hours as of December, 2015. The specific modifications budgeted and programmed are below.

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

Funding for the exhibit contained in PE 0101113F. Funding under this PE may be used to alleviate Diminishing Manufacturing Sources (DMS) issues. APAF funds for B-52 are also executed under two additional PEs, Maintenance Trainer Modifications (PE 0809731F) and New START Treaty Implementation (PE 0305145F).

The FY 2017 funding request was reduced by \$5.938 million to account for the availability of prior year execution balances.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	139.083	126.883	93.076	-	93.076	116.584	94.576	86.520
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	23.031	18.029	15.944	-	15.944	16.531	10.947	8.289
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	162.114	144.912	109.020	-	109.020	133.115	105.523	94.809

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

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

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	3265 / B-52 Anti-Skid Replacement (Reliability & Maintainability)			- / 0.633	- / 17.004	- / 0.883	- / 0.889	- / -	- / 0.889
P-40a***	6884 / B-52 Internal Weapons Bay Upgrade (Capability Improvement)			- / 0.360	- / 7.486	- / 14.472	- / 3.691	- / -	- / 3.691
P-40a***	6885 / AETC Trainers (B-52) (Other)			- / 2.949	- / 1.635	- / 2.390	- / 2.406	- / -	- / 2.406
P-40a***	6888 / B-52 New Start Treaty (Other)			- / 0.500	- / 0.933	- / 0.099	- / 0.196	- / -	- / 0.196
P-40a***	6889 / B-52 Link-16 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6890 / B-52 Radar Modernization (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6891 / B-52 WST AR Upgrade Trainer (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6892 / B-52 Low Cost Improvements (Capability Improvement)			- / -	- / -	- / -	- / 0.845	- / -	- / 0.845
P-40a***	6893 / GPS-IU Replacement (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6894 / B-52 Crypto Modernization (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9709 / B-52 Mode S/5 (Capability Improvement)			- / 9.590	- / 12.479	- / 2.488	- / -	- / -	- / -
P-40a***	99999X / B-52 Low Cost Mods (Other)			- / 0.454	- / 0.590	- / 0.436	- / 1.925	- / -	- / 1.925
P-3a	3310 / B-52 Combat Network Communications Technology (Capability Improvement)			- / 157.896	- / 121.987	- / 124.144	- / 99.068	- / -	- / 99.068
P-40	Total Gross/Weapon System Cost			- / 172.382	- / 162.114	- / 144.912	- / 109.020	- / -	- / 109.020

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	3265 / B-52 Anti-Skid Replacement (Reliability & Maintainability)			- / 0.908	- / 0.924	- / 0.940	- / 0.957	- / -	- / 23.138
P-40a***	6884 / B-52 Internal Weapons Bay Upgrade (Capability Improvement)			- / 29.586	- / 21.675	- / -	- / 0.669	- / -	- / 77.939
P-40a***	6885 / AETC Trainers (B-52) (Other)			- / 2.456	- / 2.500	- / 2.544	- / 2.590	- / -	- / 19.470
P-40a***	6888 / B-52 New Start Treaty (Other)			- / -	- / -	- / -	- / -	- / -	- / 1.728
P-40a***	6889 / B-52 Link-16 (Capability Improvement)			- / -	- / 8.630	- / 17.268	- / 17.772	- / -	- / 43.670
P-40a***	6890 / B-52 Radar Modernization (Capability Improvement)			- / -	- / -	- / 5.855	- / 13.105	- / -	- / 18.960
P-40a***	6891 / B-52 WST AR Upgrade Trainer (Capability Improvement)			- / 1.806	- / -	- / 11.085	- / -	- / -	- / 12.891
P-40a***	6892 / B-52 Low Cost Improvements (Capability Improvement)			- / 2.374	- / 2.381	- / 2.431	- / 2.482	- / -	- / 10.513
P-40a***	6893 / GPS-IU Replacement (Capability Improvement)			- / -	- / -	- / 8.932	- / 9.096	- / -	- / 18.028
P-40a***	6894 / B-52 Crypto Modernization (Capability Improvement)			- / -	- / 14.880	- / 17.863	- / 21.842	- / -	- / 54.585
P-40a***	9709 / B-52 Mode S/5 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 24.557
P-40a***	99999X / B-52 Low Cost Mods (Other)			- / 0.449	- / 0.456	- / 0.464	- / 0.474	- / -	- / 5.248
P-3a	3310 / B-52 Combat Network Communications Technology (Capability Improvement)			- / 95.536	- / 54.077	- / 27.427	- / 27.931	- / -	- / 708.066
P-40	Total Gross/Weapon System Cost			- / 133.115	- / 105.523	- / 94.809	- / 96.918	- / -	- / 1,018.793

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft		P-1 Line Item Number / Title: B05200 / B-52
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0101113F	Other Related Program Elements: 0101113F
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.		

Justification:

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B05200 / B-52						Modification Number / Title: 3310 / B-52 Combat Network Communications Technology	

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	157.896	121.987	124.144	99.068	-	99.068	95.536	54.077	27.427	27.931	-	708.066
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	157.896	121.987	124.144	99.068	-	99.068	95.536	54.077	27.427	27.931	-	708.066
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	157.896	121.987	124.144	99.068	-	99.068	95.536	54.077	27.427	27.931	-	708.066
<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 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. This CONNECT modification includes procurement of aircraft kits that will be installed in conjunction with Programmed Depot Maintenance (PDM). Ground station mission planning hardware, support equipment, initial spares, and Interim Contractor Support will be procured. Additional initial support/readiness efforts will develop and upgrade B-52 training devices with CONNECT functionality. The Other Government Cost line includes, but is not limited to, Diminishing Manufacturing Sources (DMS) costs to maintain the production configuration through the identification, review and monitoring of items with high obsolescence risk potential, classification of identified items according to criticality, identification of alternatives and implementation of resolutions. Resolutions may include non-recurring engineering (NRE) and/or replacement costs for DMS components, bridge buys of DMS components until NRE can be completed or Life of Type buys, whichever is most appropriate. Government Furnished Property (GFP) are the items that are part of the kit, but are procured by the government, directly through government supply or from other government agencies and provided directly to PDM. Included in the Support Equipment line is the planning for establishment of an organic Depot capability, stand-up of the depot, procurement of depot equipment and procurement of the CONNECT ground station. This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0101113F. NOTE: This modification procures 74 kits and installs 75 kits. Two kits were procured previously in 2007 under the EMD contract to support developmental testing. Only one kit was installed on the flight test aircraft to complete developmental testing. The additional EMD kit was re-designated as a kit-proof kit, and was installed in FY13/FY14 during PDM.

Milestone/Development Status

Development began in FY05. CONNECT Initial Operational Test & Evaluation (IOT&E) flight test completed November 2011. The Low Rate Initial Production (LRIP) Lot 1 contract was awarded in May 2013. The LRIP Lot 2 contract was awarded August 2014. Full Rate Production Lot 1a (10 units) was awarded February 2015. Full Rate Production Lot 1b (additional 7 units) was awarded 8 August 2015. Future Full Rate Production Lots 2 - 4 are priced options.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	104.021	106.115	83.512	-	83.512	80.703	47.022	25.527	27.931
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.966	18.029	15.556	-	15.556	14.833	7.055	1.900	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	121.987	124.144	99.068	-	99.068	95.536	54.077	27.427	27.931

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B05200 / B-52					Modification Number / Title: 3310 / B-52 Combat Network Communications Technology			
Models of Systems Affected: B-52H				Modification Type: Capability Improvement				Related RDT&E PEs: 0101113F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0101113F	2 / 299.073	- / 8.323	- / 11.225	- / 12.808	- / -	- / 12.808	- / 9.097	- / 11.369	- / -	- / -	- / -	2 / 351.895	
Procurement													
Modification Item 1 of 1: CONECT Kit													
A Kits													
Recurring													
CONECT Kit:INSTALL KITS Group A (Active)	17 / 12.540	12 / 11.803	12 / 9.352	9 / 7.823	- / -	9 / 7.823	6 / 5.521	- / -	- / -	- / -	- / -	56 / 47.039	
CONECT Kit:INSTALL KITS Group A (Reserve)	1 / 1.400	5 / 4.916	4 / 3.117	4 / 3.477	- / -	4 / 3.477	4 / 3.681	- / -	- / -	- / -	- / -	18 / 16.591	
<i>Subtotal: Recurring</i>	- / 13.940	- / 16.719	- / 12.469	- / 11.300	- / -	- / 11.300	- / 9.202	- / -	- / -	- / -	- / -	- / 63.630	
B Kits													
Recurring													
CONECT Kit:EQUIPMENT Group B (Active)	17 / 51.837	12 / 31.382	12 / 30.225	9 / 16.111	- / -	9 / 16.111	6 / 9.278	- / -	- / -	- / -	- / -	56 / 138.833	
CONECT Kit:EQUIPMENT Group B (Reserve)	1 / 2.672	5 / 13.050	4 / 10.056	4 / 7.139	- / -	4 / 7.139	4 / 6.119	- / -	- / -	- / -	- / -	18 / 39.036	
<i>Subtotal: Recurring</i>	- / 54.509	- / 44.432	- / 40.281	- / 23.250	- / -	- / 23.250	- / 15.397	- / -	- / -	- / -	- / -	- / 177.869	
<i>Subtotal: CONECT Kit</i>	- / 68.449	- / 61.151	- / 52.750	- / 34.550	- / -	- / 34.550	- / 24.599	- / -	- / -	- / -	- / -	- / 241.499	
<i>Subtotal: Procurement, All Modification Items</i>	- / 68.449	- / 61.151	- / 52.750	- / 34.550	- / -	- / 34.550	- / 24.599	- / -	- / -	- / -	- / -	- / 241.499	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 4.299	- / 0.900	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.799	
GROUP B: TOTAL NONRECURRING	- / 19.372	- / 7.964	- / 15.406	- / 15.260	- / -	- / 15.260	- / 6.104	- / 3.300	- / 0.020	- / -	- / -	- / 57.426	
Change Orders	- / 9.353	- / -	- / 4.600	- / 15.800	- / -	- / 15.800	- / 4.200	- / 2.200	- / 1.600	- / 0.010	- / -	- / 27.763	
Data	- / 0.465	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.465	
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	1 / 12.600	2 / 9.650	1 / 6.300	1 / 2.900	- / -	5 / 31.450	
SUPPORT-EQUIP	- / 11.481	- / 5.800	- / 12.232	- / 13.700	- / -	- / 13.700	- / 8.794	- / 8.050	- / 2.407	- / -	- / -	- / 62.464	
OTHER GOVT	- / 18.190	- / 24.172	- / 10.256	- / 16.958	- / -	- / 16.958	- / 17.539	- / 2.777	- / 2.100	- / 24.521	- / -	- / 96.513	
GFP	- / 6.081	- / 2.500	- / 2.200	- / 11.800	- / -	- / 11.800	- / 1.400	- / -	- / -	- / -	- / -	- / 13.981	
PMA - Other Gov't Costs	- / 14.264	- / 8.500	- / 7.900	- / 10.000	- / -	- / 10.000	- / 8.900	- / 7.000	- / 5.500	- / 0.500	- / -	- / 62.564	
<i>Subtotal: Support</i>	- / 83.505	- / 49.836	- / 53.194	- / 43.518	- / -	- / 43.518	1 / 49.537	2 / 32.977	1 / 17.927	1 / 27.931	- / -	5 / 358.425	
Installation													
Modification Item 1 of 1: CONECT Kit	3 / 5.942	9 / 11.000	15 / 18.200	17 / 21.000	- / -	17 / 21.000	17 / 21.400	9 / 21.100	5 / 9.500	- / -	- / -	75 / 108.142	
<i>Subtotal: Installation</i>	3 / 5.942	9 / 11.000	15 / 18.200	17 / 21.000	- / -	17 / 21.000	17 / 21.400	9 / 21.100	5 / 9.500	- / -	- / -	75 / 108.142	
Total													

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 3310 / B-52 Combat Network Communications Technology

Models of Systems Affected: B-52H	Modification Type: Capability Improvement	Related RDT&E PEs: 0101113F
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total Cost (Procurement + Support + Installation)	157.896	121.987	124.144	99.068	-	99.068	95.536	54.077	27.427	27.931	-	708.066

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 3310 / B-52 Combat Network Communications Technology

Modification Item 1 of 1: CONECT Kit

Manufacturer Information

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

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	May 2015	May 2016	May 2017	May 2018			
Delivery Dates	Feb 2016	Feb 2017	Feb 2018	Feb 2019			

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	3 / 5.942	9 / 11.000	7 / 8.492	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 25.434
FY 2015	- / -	- / -	8 / 9.708	9 / 11.117	- / -	9 / 11.117	- / -	- / -	- / -	- / -	- / -	17 / 20.825
FY 2016	- / -	- / -	- / -	8 / 9.883	- / -	8 / 9.883	8 / 10.072	- / -	- / -	- / -	- / -	16 / 19.955
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	9 / 11.328	4 / 11.600	- / -	- / -	- / -	13 / 22.928
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 9.500	5 / 9.500	- / -	- / -	10 / 19.000
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3 / 5.942	9 / 11.000	15 / 18.200	17 / 21.000	- / -	17 / 21.000	17 / 21.400	9 / 21.100	5 / 9.500	- / -	- / -	75 / 108.142

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	3	2	2	2	3	3	3	4	5	4	4	4	5	4	3	4	6	3	3	1	2	3	1	1	-	-	-	-	-	-	-	-	-
Out	1	-	-	2	2	2	2	3	3	4	4	5	4	4	4	5	3	4	4	5	3	3	2	2	3	1	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

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

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	307.447	12.879	84.335	-	135.801	135.801	-	-	-	-	-	540.462
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	307.447	12.879	84.335	-	135.801	135.801	-	-	-	-	-	540.462
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	307.447	12.879	84.335	-	135.801	135.801	-	-	-	-	-	540.462

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

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

Description:

The Large Aircraft Infrared Countermeasures (LAIRCM) system provides a significantly improved defensive capability for the Department of Defense to counter the proliferating infrared (IR) man-portable air defense systems (MANPADS) missile threats by detecting, tracking, and countering incoming IR missiles. This system is fully autonomous following power-up and consists of Group A aircraft modification kits and Group B hardware. Group B hardware for the LAIRCM system [AN/AQQ-24(V)] consists of Missile Warning Sensors (MWS) either ultraviolet (UV) or the more capable infrared (IR); Guardian Laser Transmitter Assemblies (GLTA)/Small Laser Transmitter Assemblies (SLTA); a control indicator unit (CIU); a system processor (LSP); and repeaters, as needed by the platform.

Like all programs, LAIRCM faces the challenges associated with resolving Diminishing Manufacturing Sources (DMS) issues. DMS initiatives have resulted in replacement units for the CIU and the LSP. The control indicator unit replacement (CIUR) replaces the CIU, and the LAIRCM system processor replacement (LSPR) replaces the LSP. The CIUR will become the preferred component in FY15, and the LSPR in FY16. The production program maintains a robust reliability program which results in the incorporation of reliability enhancements improving overall producibility, while gaining the inherent benefit of improved long-term sustainment. There are numerous LAIRCM configurations installed on a variety of aircraft. All configurations include a processor and a control indicator unit; however, configurations can be differentiated by the type of missile warning sensors and laser transmitter assemblies. Configurations include SLTAs and UV sensors, GLTAs and UV sensors, and GLTAs and IR sensors.

This program includes all efforts needed to procure, field, and support LAIRCM. These efforts include, but are not limited to, Hardware Procurement (Group A and Group B), Installation, Installation Support, Initial Spares, Support Equipment, Government Furnished Equipment (GFE) and GFE Repairs, Line Replaceable Unit (LRU) Repairs, Interim Contractor Support (ICS), Depot Standup, Systems Engineering and Program Management (SEPM), Failure Reporting and Corrective Analysis Support (FRACAS), Other Government Costs (OGCs), Pre-Planned Product Improvements, Program Management and Administration (PMA) costs, simulators, data, and a DMS program to ensure continued production of all variants of LAIRCM components and for all LAIRCM customers. The LAIRCM DMS program includes all activities associated with monitoring and identifying DMS issues. It also includes all activities required to resolve DMS issues: 1) the use of existing material solutions which involves actions to secure availability of existing supply (i.e., life of need buy and extension of production or support); 2) implementing substitutes which includes engineering activities to qualify and implement the identified substitute (i.e., approved part; repair, refurbishment, or reclamation; simple substitute; and complex substitute); and 3) redesign which includes all aspects of engineering and qualification to implement new or highly modified equipment (i.e., development of a new item or source; redesign of a next higher assembly; and redesign of a complex/system replacement).*

*Reference SD-22 Manual Dated August 2012

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

Funding for this exhibit contained in PE 0401134F.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	12.879	84.335	-	135.801	135.801	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	12.879	84.335	-	135.801	135.801	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

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

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8629HMC130 / LARGE AIRCRAFT INFRARED COUNTERMEASURES HC/MC-130 Recap (Capability Improvement)			- / 116.100	- / -	- / -	- / -	- / -	- / -
P-3a	1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130 (Capability Improvement)			- / -	- / -	- / -	- / -	- / 14.301	- / 14.301
P-3a	2 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J (Capability Improvement)			- / 95.060	- / 4.943	- / -	- / -	- / 24.718	- / 24.718
P-3a	3 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17 (Capability Improvement)			- / 86.602	- / 7.837	- / 84.335	- / -	- / 70.000	- / 70.000
P-3a	4 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5 (Capability Improvement)			- / 9.685	- / 0.099	- / -	- / -	- / 26.782	- / 26.782
P-40	Total Gross/Weapon System Cost			- / 307.447	- / 12.879	- / 84.335	- / -	- / 135.801	- / 135.801

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8629HMC130 / LARGE AIRCRAFT INFRARED COUNTERMEASURES HC/MC-130 Recap (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 116.100
P-3a	1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 14.301
P-3a	2 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 124.721
P-3a	3 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 248.774
P-3a	4 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 36.566
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 540.462

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures				Modification Number / Title: 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	-	14.301	14.301	-	-	-	-	-	14.301
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	-	14.301	14.301	-	-	-	-	-	14.301
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	-	14.301	14.301	-	-	-	-	-	14.301
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 8629C130, LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130, is a new start. The total program is for installation of the Two Color Missile Warning System on six (6) HC-130(H)N aircraft. This FY17 OCO funding will cover NRE, trial installation (kits and labor), kit proof (kits and labor), and production (kits and labor) on six aircraft.

The HC-130(H)N mission calls for employment in contested and uncontested environments at low to medium altitude. With its current defensive systems the HC-130(H)N lacks the capability to detect/defeat the latest generation of threats that are being proliferated in current contested Area of Responsibilities (AORs), severely limiting its ability to execute the mission. The aircraft is tasked with refueling/supporting the HH-60 and employing Guardian Angel Teams at a low to medium altitude.

Implementation of the two-color IR MWS sensors will increase not just aircraft survivability but all PRTF assets in the contested environments. The proliferation and lethality of current generation MANPADS leaves the HC-130(H)N vulnerable and more reliant on crew skill, tactics, and a lower level of risk/threat environment to be able to fight its way into the terminal area. Current MWS sensors on the HC-130 are based off of 1990's technology resulting in poor missile detection/warning times, leaving limited time for crew react or countermeasure. The NexGen Two Color MWS will have higher spatial resolution, longer range, and quicker IR missile declaration warning over the existing UV MWS spectrum currently employed on the HC-130. The MWS also has the ability to detect missiles whose motors have burned out but are still viable threats. Finally and perhaps most importantly, these sensors will provide enhanced capabilities against emerging threats. Together with the Combat Penetrator suite the upgraded MWS sensors will increase mission capabilities while simultaneously increasing the PRTF's survivability as a whole in contested environment.

The FY17 OCO Group A kit Cost includes the installation cost of \$1.97M for 6 aircraft.

Milestone/Development Status

Development on the basic C-130 is complete. Development on the AC-130U and MC-130H completed in FY 14.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	-	14.301	14.301	-	-	-	-
Total:	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures				Modification Number / Title: 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	-	-	-	14.301	14.301	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures					Modification Number / Title: 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130			
Models of Systems Affected: C-130				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: C-130 LAIRCM</i>													
A Kits													
Recurring													
C-130 LAIRCM:INSTALL KITS Group A (Active)													
	- / -	- / -	- / -	- / -	6 / 4.370	6 / 4.370	- / -	- / -	- / -	- / -	- / -	6 / 4.370	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / -	- / 4.370	- / 4.370	- / -	- / -	- / -	- / -	- / -	- / 4.370	
B Kits													
Recurring													
C-130 LAIRCM:EQUIPMENT Group B (Active)													
	- / -	- / -	- / -	- / -	6 / 5.370	6 / 5.370	- / -	- / -	- / -	- / -	- / -	6 / 5.370	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / -	- / 5.370	- / 5.370	- / -	- / -	- / -	- / -	- / -	- / 5.370	
<i>Subtotal: C-130 LAIRCM</i>													
	- / -	- / -	- / -	- / -	- / 9.740	- / 9.740	- / -	- / -	- / -	- / -	- / -	- / 9.740	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / -	- / -	- / -	- / -	- / 9.740	- / 9.740	- / -	- / -	- / -	- / -	- / -	- / 9.740	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING													
	- / -	- / -	- / -	- / -	- / 14.251	- / 14.251	- / -	- / -	- / -	- / -	- / -	- / 14.251	
GROUP B: TOTAL NONRECURRING													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP													
	- / -	- / -	- / -	- / -	- / 10.310	- / 10.310	- / -	- / -	- / -	- / -	- / -	- / 10.310	
<i>Subtotal: Support</i>													
	- / -	- / -	- / -	- / -	- / 4.561	- / 4.561	- / -	- / -	- / -	- / -	- / -	- / 4.561	
Installation													
<i>Modification Item 1 of 1: C-130 LAIRCM</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	4 / -	- / -	- / -	- / -	6 / -	
<i>Subtotal: Installation</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	4 / -	- / -	- / -	- / -	6 / -	
Total													
Total Cost (Procurement + Support + Installation)													
	-	-	-	-	14.301	14.301	-	-	-	-	-	14.301	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130

Modification Item 1 of 1: C-130 LAIRCM

Manufacturer Information

Manufacturer Name: TB D	Manufacturer Location: TB D
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Apr 2017				
Delivery Dates			Apr 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	4 / -	- / -	- / -	- / -	6 / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	4 / -	- / -	- / -	- / -	6 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	6

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures				Modification Number / Title: 2 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	95.060	4.943	-	-	24.718	24.718	-	-	-	-	-	124.721
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	95.060	4.943	-	-	24.718	24.718	-	-	-	-	-	124.721
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	95.060	4.943	-	-	24.718	24.718	-	-	-	-	-	124.721

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

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

Description:

The Large Aircraft Infrared Countermeasures (LAIRCM) system significantly improves defensive capability for the C-130J and EC-130J to counter the proliferating Infrared (IR) man-portable air defense systems (MANPADS) missile threats. The system is fully automatic following power-up. The LAIRCM kit is housed behind a turret assembly and functions using missile warning sensors (MWS), 2 Turret Assemblies, a control indicator unit (CIU), a colorless eye-safe multiband laser, and a system processor to detect, track, and counter incoming IR missiles. As Line Replaceable Units (LRUs) are updated, LAIRCM will be updated with the latest configuration of LRUs.

This program includes efforts needed to procure and install retrofit kits and deploy the system and support LAIRCM. These efforts include, but not limited to, hardware procurement, installation, installation support, initial spares, support equipment, Government Furnished Equipment (GFE,) and GFE repairs, Interim Contractor Support (ICS), depot stand up, mod-line repairs, Systems Engineering and Program Management (SEPM), Failure Reporting and Corrective Analysis Support (FRACAS), Technical Orders, Other Government Costs (OGCs), and Program Management and Administration (PMA) costs. Costs for the identification, review, monitoring, and mitigation of items impacted by diminishing manufacturing sources (DMS) are included. Additionally, "change orders" include NRE/replacement costs for equipment updates to increase reliability, availability, and maintainability of LAIRCM group B components as identified during the fiscal year.

FY14 includes procurement of NexGen capabilities for five EC-130Js (Guard) LAIRCM Group B kits, along with five Group A kits and installs. Funding will also include the use of on hand quantities of LAIRCM components with procurement of NexGen capability (MWS and processor from UV to IR).

LAIRCM kit quantities purchased are dependent on the unit cost and/or the installation cost of the kits. On hand quantities of excess LAIRCM components procured for other platforms will be utilized to complete Group B Kits.

NOTES:

Basic Js (Block 20) Installation Cost (6) and Installation Scheduled (33) Qty totals do not match due to Installation Costs being included in A Kit Procurement cost in prior years.

FY17 OCO funding (\$24.718M) will be used for the following:

- Installation of 8 Block 20 kits (\$7.196M), A Kits and B Kits procured with prior year funds.

- Procurement (Block 30): 1 Group A kit, 1 Group B Kit, and Installation; 1 Group A spare kit & 1 Group B spare kit; Simulators upgrade; and OGC (\$17.599M). Installation cost is included in the Group A Kit cost.

Milestone/Development Status

LAIRCM development on the C-130J platform concluded in FY 11. First production kit buy was in FY 11.

The C-130J LAIRCM system will incorporate the GLTA and the AAR-54 MWS.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force						Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures			Modification Number / Title: 2 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J			

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.943	-	-	24.718	24.718	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.943	-	-	24.718	24.718	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures					Modification Number / Title: 2 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J			
Models of Systems Affected: C130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0401134F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 3: Basic Js (Block 20)													
A Kits													
Recurring													
Basic Js (Block 20):INSTALL KITS Group A (Active)	32 / 13.275	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 13.275	
Basic Js (Block 20):INSTALL KITS Group A (Guard)	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 13.275	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.275	
B Kits													
Recurring													
Basic Js (Block 20):EQUIPMENT Group B (Active)	32 / 41.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 41.386	
Basic Js (Block 20):EQUIPMENT Group B (Guard)	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 41.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 41.386	
Subtotal: Basic Js (Block 20)	- / 54.661	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 54.661	
Modification Item 2 of 3: Basic Js (Block 30)													
A Kits													
Recurring													
Basic Js (Block 30):INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	1 / 0.688	1 / 0.688	- / -	- / -	- / -	- / -	- / -	1 / 0.688	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / 0.688	- / 0.688	- / -	- / -	- / -	- / -	- / -	- / 0.688	
B Kits													
Recurring													
Basic Js (Block 30):EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	1 / 3.400	1 / 3.400	- / -	- / -	- / -	- / -	- / -	1 / 3.400	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / 3.400	- / 3.400	- / -	- / -	- / -	- / -	- / -	- / 3.400	
Subtotal: Basic Js (Block 30)	- / -	- / -	- / -	- / -	- / 4.088	- / 4.088	- / -	- / -	- / -	- / -	- / -	- / 4.088	
Modification Item 3 of 3: EC-130Js													
A Kits													
Recurring													
EC-130Js:INSTALL KITS Group A (Active)	5 / 3.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 3.800	
Subtotal: Recurring	- / 3.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.800	
B Kits													
Recurring													
EC-130Js:EQUIPMENT Group B (Active)	5 / 11.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 11.900	
Subtotal: Recurring	- / 11.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.900	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures						Modification Number / Title: 2 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J		
Models of Systems Affected: C130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0401134F				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: EC-130Js</i>	- / 15.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.700
<i>Subtotal: Procurement, All Modification Items</i>	- / 70.361	- / -	- / -	- / -	- / 14.088	- / 14.088	- / -	- / -	- / -	- / -	- / -	- / 74.449
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 0.033	- / -	- / -	- / -	- / 14.000	- / 14.000	- / -	- / -	- / -	- / -	- / -	- / 14.033
Mod of Spares	- / 2.941	- / 0.167	- / -	- / -	1 / 14.088	1 / 14.088	- / -	- / -	- / -	- / -	- / -	1 / 7.196
Data	- / 0.561	- / 0.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.753
SIM/TRAINER	- / -	- / -	- / -	- / -	- / 14.420	- / 14.420	- / -	- / -	- / -	- / -	- / -	- / 14.420
SUPPORT-EQUIP	- / 1.500	- / -	- / -	- / -	- / 0.645	- / 0.645	- / -	- / -	- / -	- / -	- / -	- / 2.145
ICS-Labor	- / 2.000	- / 0.283	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.283
OTHER GOVT	- / 7.641	- / 0.282	- / -	- / -	- / 10.358	- / 10.358	- / -	- / -	- / -	- / -	- / -	- / 18.281
OCO INSTALLATIONS	- / -	- / 0.146	- / -	- / -	8 / 7.119	8 / 7.119	- / -	- / -	- / -	- / -	- / -	8 / 7.265
PMA - Other Gov't Costs	- / 2.488	- / 0.265	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.753
<i>Subtotal: Support</i>	- / 17.164	- / 1.335	- / -	- / -	9 / 20.630	9 / 20.630	- / -	- / -	- / -	- / -	- / -	9 / 39.129
Installation												
<i>Modification Item 1 of 3: Basic Js (Block 20)</i>	2 / 1.766	4 / 3.608	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 5.374
<i>Modification Item 2 of 3: Basic Js (Block 30)</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / -	- / -	- / -	- / -	- / -	1 / -
<i>Modification Item 3 of 3: EC-130Js</i>	5 / 5.769	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 5.769
<i>Subtotal: Installation</i>	7 / 7.535	4 / 3.608	- / -	- / -	- / -	- / -	1 / -	- / -	- / -	- / -	- / -	12 / 11.143
Total												
Total Cost (Procurement + Support + Installation)	95.060	4.943	-	-	24.718	24.718	-	-	-	-	-	124.721

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 2 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J

Modification Item 2 of 3: Basic Js (Block 30)

Manufacturer Information

Manufacturer Name: Northrup Grumman	Manufacturer Location: ROLLING MEADOWS
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 14

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Apr 2017				
Delivery Dates			Jun 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / -	- / -	- / -	- / -	- / -	1 / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / -	- / -	- / -	- / -	- / -	1 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 2 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J

Modification Item 3 of 3: EC-130Js

Manufacturer Information

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

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 5.769	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 5.769
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 5.769	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 5.769

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	0	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures				Modification Number / Title: 3 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	86.602	7.837	84.335	-	70.000	70.000	-	-	-	-	-	248.774
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	86.602	7.837	84.335	-	70.000	70.000	-	-	-	-	-	248.774
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	86.602	7.837	84.335	-	70.000	70.000	-	-	-	-	-	248.774
<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:

NEXGEN NEW INSTALLS The Large Aircraft Infrared Countermeasures (LAIRCM) system provides a significantly improved defensive capability for the C-17 to counter the proliferating infrared (IR) man-portable air defense systems (MANPADS) missile threats. This system is fully automatic following power-up and consists of Group A aircraft modification kits and Group B equipment. The LAIRCM system [AN/AQQ-24(V)] consists of 6 missile warning sensors (MWS), 1 (lite configuration) or 3 (full configuration) Guardian Laser Transmitter Assemblies (GLTA)/Small Laser Transmitter Assemblies (SLTA), a colorless eye-safe multiband laser, control indicator unit (CIU), 2 repeaters and a system processor to detect, track and counter incoming IR missiles.

Enhancements and retrofits to the current configuration are planned for purchase and installation in FY08 and beyond. These enhancements include retrofits of the SLTA to a smaller, lighter GLTA. In addition, the current AAR-54 sensor will be replaced by a more effective infrared (IR) Next Generation Missile Warning Sensor (NexGen MWS). The processor and CIU are also slated to be replaced with updated versions that address diminishing manufacturing sources (DMS) and reliability efforts.

The "Change Orders" line in the funding table include DMS costs for the identification, review, and monitoring of items with high DMS risk potential, classification of identified items according to criticality, identification of alternatives for items having high DMS risks, and non-recurring engineering (NRE)/replacement cost for DMS components. Additionally, "change orders" include NRE/replacement costs for equipment updates to increase reliability, availability, and maintainability of LAIRCM group B components as identified during the fiscal year.

This program includes all efforts needed to procure, field and support LAIRCM. These efforts include, but are not limited to, Hardware procurement, installation, installation support, initial and readiness spares, support equipment, government furnished equipment (GFE) and GFE repairs, Interim Contractor Support (ICS), depot standup, Systems Engineering and Program Management (SEPM), Failure Reporting and Corrective Analysis Support (FRACAS), Other Government Costs (OGCs), Pre-planned Product Improvements (P3I), program management and administration (PMA) costs, simulators and data.

NOTES:

FY15 procures 1 NexGen install

FY16 procures 44 NexGen Group A & B kits and 44 NexGen Installs

FY17 OCO Procures 36 NexGen Group A & B kits and 36 NexGen Installs; installation cost included in the kit procurement.

GLTA UC (Block 20) to NexGen LSPR IR (Block 30) "Installation Cost" (44) and "Installation Schedule" (80) Qty totals are different due to FY17 OCO funded installation for 36 aircraft are included in the FY17 OCO A Kit Procurement cost.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 3 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17

Milestone/Development Status
Development is complete.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.837	84.335	-	70.000	70.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.837	84.335	-	70.000	70.000	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures					Modification Number / Title: 3 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17			
Models of Systems Affected: C-17				Modification Type: Capability Improvement				Related RDT&E PEs: 0401134F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 4: GLTA UV (Block 20) to NexGen IR (Block 20+)													
A Kits													
Recurring													
GLTA UV (Block 20) to NexGen IR (Block 20+):INSTALL KITS Group A (Active)	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / -	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: GLTA UV (Block 20) to NexGen IR (Block 20+)	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 2 of 4: GLTA UV (Block 20) to NexGen LSPR IR (Block 30)													
A Kits													
Recurring													
GLTA UV (Block 20) to NexGen LSPR IR (Block 30):INSTALL KITS Group A (Active)	- / -	- / -	44 / 3.080	- / -	36 / 6.130	36 / 6.130	- / -	- / -	- / -	- / -	- / -	80 / 9.210	
Subtotal: Recurring	- / -	- / -	- / 3.080	- / -	- / 6.130	- / 6.130	- / -	- / -	- / -	- / -	- / -	- / 9.210	
B Kits													
Recurring													
GLTA UV (Block 20) to NexGen LSPR IR (Block 30):EQUIPMENT Group B (Active)	- / -	- / -	40 / 54.000	- / -	40 / 51.980	40 / 51.980	- / -	- / -	- / -	- / -	- / -	80 / 105.980	
Subtotal: Recurring	- / -	- / -	- / 54.000	- / -	- / 51.980	- / 51.980	- / -	- / -	- / -	- / -	- / -	- / 105.980	
Subtotal: GLTA UV (Block 20) to NexGen LSPR IR (Block 30)	- / -	- / -	- / 57.080	- / -	- / 58.110	- / 58.110	- / -	- / -	- / -	- / -	- / -	- / 115.190	
Modification Item 3 of 4: Initial None to Full GLTA (Block 20)													
A Kits													
Recurring													
Initial None to Full GLTA (Block 20):INSTALL KITS Group A (Active)	8 / 8.783	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 8.783	
Initial None to Full GLTA (Block 20):INSTALL KITS Group A (Guard)	2 / 2.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.276	
Initial None to Full GLTA (Block 20):INSTALL KITS Group A (Reserve)	1 / 1.138	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.138	
Subtotal: Recurring	- / 12.197	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.197	
B Kits													

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures					Modification Number / Title: 3 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17			
Models of Systems Affected: C-17				Modification Type: Capability Improvement				Related RDT&E PEs: 0401134F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Recurring													
Initial None to Full GLTA (Block 20):EQUIPMENT Group B (Active)	8 / 20.943	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 20.943	
Initial None to Full GLTA (Block 20):EQUIPMENT Group B (Guard)	2 / 5.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.007	
Initial None to Full GLTA (Block 20):EQUIPMENT Group B (Reserve)	1 / 2.503	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.503	
Subtotal: Recurring	- / 28.453	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.453	
Subtotal: Initial None to Full GLTA (Block 20)	- / 40.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 40.650	
Modification Item 4 of 4: SLTA (Block 10) to GLTA UV (Block 20)													
A Kits													
Recurring													
SLTA (Block 10) to GLTA UV (Block 20):INSTALL KITS Group A (Active)	5 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.900	
Subtotal: Recurring	- / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.900	
B Kits													
Recurring													
SLTA (Block 10) to GLTA UV (Block 20):EQUIPMENT Group B (Active)	5 / 12.517	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 12.517	
Subtotal: Recurring	- / 12.517	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.517	
Subtotal: SLTA (Block 10) to GLTA UV (Block 20)	- / 13.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.417	
Subtotal: Procurement, All Modification Items	- / 54.067	- / -	- / 57.080	- / -	- / 58.110	- / 58.110	- / -	- / -	- / -	- / -	- / -	- / 169.257	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / 1.810	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.810	
Change Orders	- / 1.294	- / -	- / 8.145	- / -	- / 16.040	- / 16.040	- / -	- / -	- / -	- / -	- / -	- / 15.479	
Data	- / -	- / -	- / 0.390	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.390	
SIM/TRAINER	- / -	- / -	- / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.020	
SUPPORT-EQUIP	- / 2.695	- / -	- / 0.080	- / -	- / 10.100	- / 10.100	- / -	- / -	- / -	- / -	- / -	- / 2.875	
MOD OF SPARES	- / 8.784	- / -	- / 5.400	- / -	- / 15.200	- / 15.200	- / -	- / -	- / -	- / -	- / -	- / 19.384	
ICS-Labor	- / 3.929	- / 1.089	- / 6.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.018	
PMA - Contractor Services	- / 1.024	- / 4.704	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.728	
OTHER GOVT	- / 7.566	- / 1.399	- / 1.700	- / -	- / 10.550	- / 10.550	- / -	- / -	- / -	- / -	- / -	- / 11.215	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures						Modification Number / Title: 3 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17			
Models of Systems Affected: C-17				Modification Type: Capability Improvement				Related RDT&E PEs: 0401134F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Support</i>	- / 25.292	- / 7.192	- / 23.545	- / -	- / 11.890	- / 11.890	- / -	- / -	- / -	- / -	- / -	- / 67.919	
Installation													
<i>Modification Item 1 of 4: GLTA UV (Block 20) to NexGen IR (Block 20+)</i>	3 / 0.334	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.334	
<i>Modification Item 2 of 4: GLTA UV (Block 20) to NexGen LSPR IR (Block 30)</i>	- / -	- / -	44 / 3.710	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 3.710	
<i>Modification Item 3 of 4: Initial None to Full GLTA (Block 20)</i>	10 / 6.526	1 / 0.645	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 7.171	
<i>Modification Item 4 of 4: SLTA (Block 10) to GLTA UV (Block 20)</i>	5 / 0.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.383	
<i>Subtotal: Installation</i>	18 / 7.243	1 / 0.645	44 / 3.710	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	63 / 11.598	
Total													
Total Cost (Procurement + Support + Installation)	86.602	7.837	84.335	-	70.000	70.000	-	-	-	-	-	248.774	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 3 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17

Modification Item 1 of 4: GLTA UV (Block 20) to NexGen IR (Block 20+)

Manufacturer Information							
Manufacturer Name: Boeing Aerospace				Manufacturer Location: Long Beach, Ca			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	3 / 0.334	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.334
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3 / 0.334	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.334

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Out	0	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 3 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17

Modification Item 2 of 4: GLTA UV (Block 20) to NexGen LSPR IR (Block 30)

Manufacturer Information							
Manufacturer Name: The Boeing Company				Manufacturer Location: Long Beach, Ca			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 14			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Apr 2016	Apr 2017				
Delivery Dates		Jun 2017	Jun 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	44 / 3.710	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 3.710
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	44 / 3.710	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 3.710

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	-	-	-	-	-	11	11	11	11	10	10	8	8	-	-	-	-	-	-	-	-	-	-	80
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	11	11	10	10	8	8	-	-	-	-	-	-	-	-	-	80

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 3 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17

Modification Item 3 of 4: Initial None to Full GLTA (Block 20)

Manufacturer Information

Manufacturer Name: Boeing Aerospace	Manufacturer Location: Long Beach, Ca
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 14

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	10 / 6.526	1 / 0.645	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 7.171
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10 / 6.526	1 / 0.645	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 7.171

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	-	-	-	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
Out	0	-	-	-	-	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 3 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17

Modification Item 4 of 4: SLTA (Block 10) to GLTA UV (Block 20)

Manufacturer Information

Manufacturer Name: Boeing Aerospace	Manufacturer Location: Long Beach, Ca
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 14

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 0.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.383
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 0.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.383

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	0	-	-	-	-	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures				Modification Number / Title: 4 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.685	0.099	-	-	26.782	26.782	-	-	-	-	-	36.566
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.685	0.099	-	-	26.782	26.782	-	-	-	-	-	36.566
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.685	0.099	-	-	26.782	26.782	-	-	-	-	-	36.566
<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 Large Aircraft Infrared Counter Measure (LAIRCM) system provides a significantly improved defensive capability for the C-5 to counter the proliferating infrared (IR) man-portable air defense system (MANPAD) missile threats. The system is fully automatic following power-up and consists of group A aircraft modification kits and group B equipment. LAIRCM Block 30 modified aircraft will include infrared sensors and upgraded LRU's, resulting in a total of 52 aircraft being modified into the LAIRCM configuration. The program includes all efforts needed to procure, field and support LAIRCM. This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0401134.

FY17 funds include Procurement (Block 30): 2 Group A Kits, 2 Group B Kits, 2 Antennas and Installation. Group A Kit spare, Group B Kit spare, and integration effort. The Group A Kits include new wire from the Legacy System Processor Replacement (LSPR) to the Antenna. The Group B Kits include five new infrared sensors, LSPR, Control Indicator Unit Replacement (CIUR), High Cap Cards for the CIUR, and Smart Connector Assembly Programming, and Initial Spares. The Antenna includes Support Equipment Requirements Document (SERD), Flight Test, Engineering, and Logistics. Integration costs include Time Compliance Technical Order (TCTO) build, Tech Orders (TO) Changes, TO Validation/Verification, Group A Provisioning, Drawing updates, Installation plans, engineering effort, software development, Qualification Testing, Tech Manual and Initial Flight Test. Includes Systems Engineering and Program Management (SEPM), Other Government Costs (OGCs).

Group A procurement total includes installation costs. Group A procurement cost is \$.105M and installation cost is \$.540M, for a total of \$.645M.

Milestone/Development Status

Development is complete.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.099	-	-	26.782	26.782	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.099	-	-	26.782	26.782	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures					Modification Number / Title: 4 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5			
Models of Systems Affected: C-5B, C-5C, C-5M				Modification Type: Capability Improvement				Related RDT&E PEs: 0401134F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 2: C-5 Block 20													
A Kits													
Recurring													
C-5 Block 20:INSTALL KITS Group A (Active)	2 / 1.951	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.951	
Subtotal: Recurring	- / 1.951	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.951	
Subtotal: C-5 Block 20	- / 1.951	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.951	
Modification Item 2 of 2: C-5 Block 30													
A Kits													
Recurring													
C-5 Block 30:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	2 / 0.645	2 / 0.645	- / -	- / -	- / -	- / -	- / -	2 / 0.645	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / 0.645	- / 0.645	- / -	- / -	- / -	- / -	- / -	- / 0.645	
B Kits													
Recurring													
C-5 Block 30:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	2 / 4.100	2 / 4.100	- / -	- / -	- / -	- / -	- / -	2 / 4.100	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / 4.100	- / 4.100	- / -	- / -	- / -	- / -	- / -	- / 4.100	
Subtotal: C-5 Block 30	- / -	- / -	- / -	- / -	- / 4.745	- / 4.745	- / -	- / -	- / -	- / -	- / -	- / 4.745	
Subtotal: Procurement, All Modification Items	- / 1.951	- / -	- / -	- / -	- / 4.745	- / 4.745	- / -	- / -	- / -	- / -	- / -	- / 6.696	
Support (All Modification Items)													
Change Orders	- / 1.100	- / -	- / -	- / -	- / 3.955	- / 3.955	- / -	- / -	- / -	- / -	- / -	- / 5.055	
Data	- / -	- / -	- / -	- / -	- / 2.455	- / 2.455	- / -	- / -	- / -	- / -	- / -	- / 2.455	
A&AS	- / -	- / -	- / -	- / -	- / 6.025	- / 6.025	- / -	- / -	- / -	- / -	- / -	- / 6.025	
SUPPORT-EQUIP	- / -	- / -	- / -	- / -	- / 1.455	- / 1.455	- / -	- / -	- / -	- / -	- / -	- / 1.455	
Type 1 Training	- / -	- / -	- / -	- / -	- / 0.350	- / 0.350	- / -	- / -	- / -	- / -	- / -	- / 0.350	
ICS-Labor	- / 0.050	- / -	- / -	- / -	- / 0.365	- / 0.365	- / -	- / -	- / -	- / -	- / -	- / 0.415	
PMA - Contractor Services	- / 0.260	- / 0.099	- / -	- / -	- / 1.422	- / 1.422	- / -	- / -	- / -	- / -	- / -	- / 1.781	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / -	- / 1.655	- / 1.655	- / -	- / -	- / -	- / -	- / -	- / 1.655	
OTHER GOVT	- / 4.044	- / -	- / -	- / -	- / 4.355	- / 4.355	- / -	- / -	- / -	- / -	- / -	- / 8.399	
Subtotal: Support	- / 5.454	- / 0.099	- / -	- / -	- / 22.037	- / 22.037	- / -	- / -	- / -	- / -	- / -	- / 27.590	
Installation													
Modification Item 1 of 2: C-5 Block 20	0 / 2.280	2 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.280	
Modification Item 2 of 2: C-5 Block 30	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	- / -	- / -	- / -	- / -	2 / -	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures						Modification Number / Title: 4 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5		
Models of Systems Affected: C-5B, C-5C, C-5M				Modification Type: Capability Improvement				Related RDT&E PEs: 0401134F				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
<i>Subtotal: Installation</i>	- / 2.280	2 / -	- / -	- / -	- / -	- / -	2 / -	- / -	- / -	- / -	- / -	4 / 2.280
Total												
Total Cost (Procurement + Support + Installation)	9.685	0.099	-	-	26.782	26.782	-	-	-	-	-	36.566

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 4 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5

Modification Item 1 of 2: C-5 Block 20

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Rolling Meadows, IL
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 14

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017				
Delivery Dates			May 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 2.280	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.280
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 2.280	2 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.280

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures	Modification Number / Title: 4 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5

Modification Item 2 of 2: C-5 Block 30

Manufacturer Information

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

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	- / -	- / -	- / -	- / -	2 / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	- / -	- / -	- / -	- / -	2 / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: A01000 / A-10
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207131F	Other Related Program Elements: 0207131F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	852.718	-	-	1.289	23.850	25.139	-	-	-	-	-	877.857
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	852.718	-	-	1.289	23.850	25.139	-	-	-	-	-	877.857
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	852.718	-	-	1.289	23.850	25.139	-	-	-	-	-	877.857

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

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

Description:

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

Funding for this exhibit contained in PE 0207131F.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.289	23.850	25.139	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.289	23.850	25.139	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

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

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	7856 / MODE S/5 (Capability Improvement)			- / 5.711	- / -	- / -	- / -	- / -	- / -
P-40a***	9804 / A-10 Wing Replacement Program (Reliability & Maintainability)			- / 812.255	- / -	- / -	- / 1.289	- / -	- / 1.289
P-40a***	9806 / A-10 Helmet Mounted Cueing System (Capability Improvement)			- / 33.325	- / -	- / -	- / -	- / -	- / -
P-40a***	9808 / Covert/Overt Landing Light Requirement (COLA) (Capability Improvement)			- / -	- / -	- / -	- / -	- / 0.850	- / 0.850
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 1.427	- / -	- / -	- / -	- / -	- / -
P-3a	9809 / LARS-V12/C SEL (Capability Improvement)			- / -	- / -	- / -	- / -	- / 23.000	- / 23.000
P-40	Total Gross/Weapon System Cost			- / 852.718	- / -	- / -	- / 1.289	- / 23.850	- / 25.139

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	7856 / MODE S/5 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 5.711
P-40a***	9804 / A-10 Wing Replacement Program (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 813.544
P-40a***	9806 / A-10 Helmet Mounted Cueing System (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 33.325
P-40a***	9808 / Covert/Overt Landing Light Requirement (COLA) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 0.850
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 1.427
P-3a	9809 / LARS-V12/C SEL (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 23.000
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 877.857

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: A01000 / A-10						Modification Number / Title: 9809 / LARS-V12/C SEL	

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	-	23.000	23.000	-	-	-	-	-	23.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	-	23.000	23.000	-	-	-	-	-	23.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	-	23.000	23.000	-	-	-	-	-	23.000

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

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

Description:

This program, P-3A Mod 9809, LARS-V12/C SEL, is a new start.

This effort will provide significantly enhanced Combat Search and Rescue (CSAR) capabilities for Active Duty A-10 aircraft. LARS/CSEL v12 will provide A-10 pilots with precision based navigation data, secure two-way over-the-horizon data communication, over-the-horizon beacon operation, line-of-sight voice communication and line-of-sight beacon operation. This will improve the ability to locate and recover survivors. LARS/CSEL capable aircraft will display survivor information (coordinates and messaging) in all CSAR aircraft cockpits via data link; improving CSAR participants situational awareness.

Milestone/Development Status

N/A

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	23.000	23.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	23.000	23.000	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: A01000 / A-10					Modification Number / Title: 9809 / LARS-V12/C SEL			
Models of Systems Affected: A-10				Modification Type: Capability Improvement				Related RDT&E PEs: 0207131F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: LARS</i>													
A Kits													
Recurring													
LARS:INSTALL KITS Group A (Active)													
	- / -	- / -	- / -	- / -	141 / 8.989	141 / 8.989	- / -	- / -	- / -	- / -	- / -	141 / 8.989	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / -	- / 8.989	- / 8.989	- / -	- / -	- / -	- / -	- / -	- / 8.989	
B Kits													
Recurring													
LARS:EQUIPMENT Group B (Active)													
	- / -	- / -	- / -	- / -	155 / 13.330	155 / 13.330	- / -	- / -	- / -	- / -	- / -	155 / 13.330	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / -	- / 13.330	- / 13.330	- / -	- / -	- / -	- / -	- / -	- / 13.330	
<i>Subtotal: LARS</i>													
	- / -	- / -	- / -	- / -	- / 22.319	- / 22.319	- / -	- / -	- / -	- / -	- / -	- / 22.319	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / -	- / -	- / -	- / -	- / 22.319	- / 22.319	- / -	- / -	- / -	- / -	- / -	- / 22.319	
Support (All Modification Items)													
SUPPORT-EQUIP													
	- / -	- / -	- / -	- / -	- / 0.681	- / 0.681	- / -	- / -	- / -	- / -	- / -	- / 0.681	
<i>Subtotal: Support</i>													
	- / -	- / -	- / -	- / -	- / 0.681	- / 0.681	- / -	- / -	- / -	- / -	- / -	- / 0.681	
Installation													
<i>Subtotal: Installation</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)													
	-	-	-	-	23.000	23.000	-	-	-	-	-	23.000	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: A01000 / A-10	Modification Number / Title: 9809 / LARS-V12/C SEL
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Modification Item 1 of 1: LARS

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 11
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Aug 2017				
Delivery Dates			Jul 2018				

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 155
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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F01500 / F-15
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207130F, 0207134F, 0207445F, 0809731F	Other Related Program Elements: 0207130F, 0207134F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,587.593	498.314	598.932	105.685	-	105.685	537.263	598.075	1,017.982	985.824	2,066.069	7,995.737
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,587.593	498.314	598.932	105.685	-	105.685	537.263	598.075	1,017.982	985.824	2,066.069	7,995.737
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,587.593	498.314	598.932	105.685	-	105.685	537.263	598.075	1,017.982	985.824	2,066.069	7,995.737

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

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

Description:

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

F-15C MIDS JTRS is a new start for FY 2018.

F-15E MIDS JTRS is a new start for FY 2018.

The FY2017 funding request was reduced by \$163.064 million to account for the availability of prior year execution balances

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

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	320.642	377.778	105.083	-	105.083	502.812	551.310	810.897
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	177.672	221.154	0.602	-	0.602	34.451	46.765	207.085
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	498.314	598.932	105.685	-	105.685	537.263	598.075	1,017.982	985.824

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

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

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207130F, 0207134F, 0207445F, 0809731F **Other Related Program Elements:** 0207130F, 0207134F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	_1202B / Advanced Display Core Processor, ADCP II-E (Reliability & Maintainability)			- / -	- / -	- / 2.892	- / 3.765	- / -	- / 3.765
P-40a***	1203 / C/D Secondary Power System (Reliability & Maintainability)			- / 6.240	- / -	- / -	- / -	- / -	- / -
P-40a***	1205 / :Advanced Display Core Processor, ADCP II-C (Reliability & Maintainability)			- / -	- / -	- / 4.718	- / 1.859	- / -	- / 1.859
P-40a***	1206 / IRST (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	1209 / C/D Flight Data Recorder (FDR) (Capability Improvement)			- / 23.959	- / -	- / -	- / 0.265	- / -	- / 0.265
P-40a***	1210 / F-15E Flight Data Recorder (FDR) (Capability Improvement)			- / 24.610	- / -	- / -	- / 1.812	- / -	- / 1.812
P-40a***	6158 / F-15C/D APG-63(V)3 radar upgrade (Capability Improvement)			- / 835.145	- / 232.460	- / 332.100	- / -	- / -	- / -
P-40a***	8353 / F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM (Reliability & Maintainability)			- / 90.953	- / 11.771	- / -	- / -	- / -	- / -
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Service Life Extension)			- / 4.709	- / 1.071	- / 1.088	- / 0.103	- / -	- / 0.103
P-40a***	8703 / F-15 A/D DIGITAL VIDEO RECORDER (Service Life Extension)			- / 21.037	- / -	- / -	- / -	- / -	- / -
P-40a***	8755 / E IFF MODE 5 (Reliability & Maintainability)			- / 40.938	- / -	- / -	- / -	- / -	- / -
P-40a***	8756 / Link 16 Cryptographic Modernization (CMI) (Capability Improvement)			- / -	- / 0.002	- / 2.837	- / -	- / -	- / -
P-40a***	8794 / F-15C/D Beyond Line Of Sight Communications (Capability Improvement)			- / 45.293	- / 9.059	- / -	- / -	- / -	- / -
P-40a***	8797 / F-15C Passive Attack Sensor System (Capability Improvement)			- / 23.965	- / 3.004	- / 0.504	- / 0.704	- / -	- / 0.704
P-40a***	8798 / 5th to 4th Gen Gateway (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8799 / F-15C MIDS JTRS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8800 / F-15E MIDS JTRS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8801 / F-15 C/D SLEP Longerons (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8803 / F-15 C/D/MUOS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8804 / F-15 F-15 E/MUOS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8805 / F-15 C/D SLEP Wings (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999U / LOW COST RETROFIT MODS (Service Life Extension)			- / 5.763	- / -	- / -	- / 0.001	- / -	- / 0.001
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 5.759	- / -	- / -	- / 0.001	- / -	- / 0.001
P-3a	1202 / F-15E Radar Modernization Program APG-82(V)1 (Reliability & Maintainability)			- / 459.222	- / 240.947	- / 254.793	- / 97.175	- / -	- / 97.175
P-40	Total Gross/Weapon System Cost			- / 1,587.593	- / 498.314	- / 598.932	- / 105.685	- / -	- / 105.685

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

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

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207130F, 0207134F, 0207445F, 0809731F **Other Related Program Elements:** 0207130F, 0207134F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	_1202B / Advanced Display Core Processor, ADCP II-E (Reliability & Maintainability)			- / 64.124	- / 67.703	- / 63.395	- / 57.436	- / 36.357	- / 295.672
P-40a***	1203 / C/D Secondary Power System (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 6.240
P-40a***	1205 / :Advanced Display Core Processor, ADCP II-C (Reliability & Maintainability)			- / 45.188	- / 68.626	- / 119.890	- / 77.056	- / 48.430	- / 365.767
P-40a***	1206 / IRST (Capability Improvement)			- / 29.613	- / 24.610	- / 49.624	- / 52.638	- / 441.876	- / 598.361
P-40a***	1209 / C/D Flight Data Recorder (FDR) (Capability Improvement)			- / 0.303	- / 0.020	- / -	- / -	- / -	- / 24.547
P-40a***	1210 / F-15E Flight Data Recorder (FDR) (Capability Improvement)			- / 2.421	- / 0.027	- / -	- / -	- / -	- / 28.870
P-40a***	6158 / F-15C/D APG-63(V)3 radar upgrade (Capability Improvement)			- / 73.296	- / 68.877	- / 28.255	- / 42.421	- / -	- / 1,612.554
P-40a***	8353 / F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 102.724
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Service Life Extension)			- / 1.117	- / 1.137	- / 1.156	- / 1.177	- / -	- / 11.558
P-40a***	8703 / F-15 A/D DIGITAL VIDEO RECORDER (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / 21.037
P-40a***	8755 / E IFF MODE 5 (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / 36.621	- / 77.559
P-40a***	8756 / Link 16 Cryptographic Modernization (CMI) (Capability Improvement)			- / 4.424	- / 5.032	- / 6.617	- / 6.739	- / -	- / 25.651
P-40a***	8794 / F-15C/D Beyond Line Of Sight Communications (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 54.352
P-40a***	8797 / F-15C Passive Attack Sensor System (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 28.177
P-40a***	8798 / 5th to 4th Gen Gateway (Capability Improvement)			- / 0.842	- / 41.871	- / 46.594	- / 33.429	- / 41.154	- / 163.890
P-40a***	8799 / F-15C MIDS JTRS (Capability Improvement)			- / 48.600	- / 48.600	- / 49.600	- / 50.169	- / -	- / 196.969
P-40a***	8800 / F-15E MIDS JTRS (Capability Improvement)			- / 47.113	- / 46.818	- / 48.032	- / 48.917	- / 17.086	- / 207.966
P-40a***	8801 / F-15 C/D SLEP Longerons (Service Life Extension)			- / -	- / -	- / 7.060	- / 5.950	- / 149.067	- / 162.077
P-40a***	8803 / F-15 C/D/MUOS (Capability Improvement)			- / -	- / -	- / 5.000	- / 5.000	- / 57.530	- / 67.530
P-40a***	8804 / F-15 F-15 E/MUOS (Capability Improvement)			- / -	- / -	- / 5.000	- / 5.000	- / 58.830	- / 68.830
P-40a***	8805 / F-15 C/D SLEP Wings (Service Life Extension)			- / -	- / -	- / 260.940	- / 267.050	- / 1,123.758	- / 1,651.748
P-40a***	99999U / LOW COST RETROFIT MODS (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / 5.764
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 5.760
P-3a	1202 / F-15E Radar Modernization Program APG-82(V)1 (Reliability & Maintainability)			- / 220.222	- / 224.754	- / 326.819	- / 332.842	- / 55.360	- / 2,212.134
P-40	Total Gross/Weapon System Cost			- / 537.263	- / 598.075	- / 1,017.982	- / 985.824	- / 2,066.069	- / 7,995.737

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

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft		P-1 Line Item Number / Title: F01500 / F-15
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207130F, 0207134F, 0207445F, 0809731F	Other Related Program Elements: 0207130F, 0207134F
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01500 / F-15				Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	459.222	240.947	254.793	97.175	-	97.175	220.222	224.754	326.819	332.842	55.360	2,212.134
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	459.222	240.947	254.793	97.175	-	97.175	220.222	224.754	326.819	332.842	55.360	2,212.134
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	459.222	240.947	254.793	97.175	-	97.175	220.222	224.754	326.819	332.842	55.360	2,212.134
<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>)	44.654	10.674	11.086	19.778	-	19.778	19.325	19.950	19.249	-	-	144.716
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

F-15E Radar Modernization Program (RMP), designated the APG-82(V)1, replaces the legacy radar using existing technology from other DOD platforms. It solves parts obsolescence problems and provides improved reliability and performance (increased synthetic aperture radar (SAR) range and resolution), including air-to-air and air-to-ground modes. Also provides for future growth. Total aircraft requirement: 217. This program funded Research Development Test and Evaluation (RDT&E) in PE 0207134F. Requirements document: F-15E Radar Modernization Program CDD dated 21 March 2005. Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign. DMSMS costs are included in Group B NRE; SE/PM costs are include in the Group B recurring; and Depot Costs are included in the Support Equipment.

Milestone/Development Status

Development is complete.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	240.947	254.793	97.175	-	97.175	220.222	224.754	326.819	332.842
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	240.947	254.793	97.175	-	97.175	220.222	224.754	326.819	332.842

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1			
Models of Systems Affected: F-15E				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207134F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0207134F	- / 380.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 380.013	
Procurement													
Modification Item 1 of 1: APG-82(v)1													
A Kits													
Recurring													
APG-82(v)1:INSTALL KITS Group A (Active)	48 / 85.194	33 / 41.880	34 / 51.770	12 / 18.616	- / -	12 / 18.616	21 / 34.218	22 / 38.140	37 / 63.860	10 / 12.580	- / 0.370	217 / 346.628	
Subtotal: Recurring	- / 85.194	- / 41.880	- / 51.770	- / 18.616	- / -	- / 18.616	- / 34.218	- / 38.140	- / 63.860	- / 12.580	- / 0.370	- / 346.628	
B Kits													
Recurring													
APG-82(v)1:EQUIPMENT Group B (Active)	48 / 264.426	33 / 108.257	34 / 169.910	12 / 65.648	- / -	12 / 65.648	21 / 120.563	22 / 129.880	37 / 210.020	10 / 45.560	- / 7.100	217 / 1,121.364	
Subtotal: Recurring	- / 264.426	- / 108.257	- / 169.910	- / 65.648	- / -	- / 65.648	- / 120.563	- / 129.880	- / 210.020	- / 45.560	- / 7.100	- / 1,121.364	
Subtotal: APG-82(v)1	- / 349.620	- / 150.137	- / 221.680	- / 84.264	- / -	- / 84.264	- / 154.781	- / 168.020	- / 273.880	- / 58.140	- / 7.470	- / 1,467.992	
Subtotal: Procurement, All Modification Items	- / 349.620	- / 150.137	- / 221.680	- / 84.264	- / -	- / 84.264	- / 154.781	- / 168.020	- / 273.880	- / 58.140	- / 7.470	- / 1,467.992	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 73.724	- / 42.000	- / 5.310	- / 1.190	- / -	- / 1.190	- / 5.490	- / 3.590	- / 3.700	- / -	- / -	- / 135.004	
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 227.029	- / -	- / 227.029	
Change Orders	- / 12.193	- / 11.001	- / 5.944	- / 1.400	- / -	- / 1.400	- / 18.134	- / 5.534	- / 17.177	- / 4.140	- / 1.018	- / 66.541	
Data	- / -	- / 13.295	- / -	- / -	- / -	- / -	- / -	- / 6.029	- / -	- / -	- / -	- / 19.324	
Type 1 Training	0 / 0.311	- / -	- / 0.190	- / -	- / -	- / -	- / -	- / 0.410	- / 0.210	- / 0.220	- / -	- / 1.341	
SUPPORT-EQUIP	- / 3.674	- / 2.771	- / 2.630	- / 0.910	- / -	- / 0.910	- / 5.350	- / 0.340	- / 0.830	- / 0.370	- / -	- / 16.875	
ICS-Labor	- / 10.057	- / 4.247	- / 3.460	- / 3.460	- / -	- / 3.460	- / 5.240	- / 6.130	- / 4.850	- / 5.880	- / -	- / 43.324	
PMA - Other Gov't Costs	- / 2.207	- / 6.801	- / 3.430	- / 1.460	- / -	- / 1.460	- / 4.320	- / 4.650	- / 3.990	- / 2.970	- / 1.500	- / 31.328	
Subtotal: Support	0 / 102.166	- / 80.115	- / 20.964	- / 8.420	- / -	- / 8.420	- / 38.534	- / 26.683	- / 20.757	- / 240.609	- / 2.518	- / 540.766	
Installation													
Modification Item 1 of 1: APG-82(v)1	12 / 7.436	14 / 10.695	16 / 12.149	6 / 4.491	- / -	6 / 4.491	32 / 26.907	32 / 30.051	32 / 32.182	32 / 34.093	41 / 45.372	217 / 203.376	
Subtotal: Installation	12 / 7.436	14 / 10.695	16 / 12.149	6 / 4.491	- / -	6 / 4.491	32 / 26.907	32 / 30.051	32 / 32.182	32 / 34.093	41 / 45.372	217 / 203.376	
Total													
Total Cost (Procurement + Support + Installation)	459.222	240.947	254.793	97.175	-	97.175	220.222	224.754	326.819	332.842	55.360	2,212.134	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1

Modification Item 1 of 1: APG-82(v)1

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: El Segundo CA/Forest MS
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 18

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2015	Jul 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates	May 2017	Jan 2018	Sep 2018	Sep 2019	Sep 2020	Sep 2021	Sep 2022

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	12 / 7.436	14 / 10.695	16 / 12.149	6 / 4.491	- / -	6 / 4.491	- / -	- / -	- / -	- / -	- / -	48 / 34.771
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	32 / 26.907	1 / 0.841	- / -	- / -	- / -	33 / 27.748
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 29.210	3 / 2.826	- / -	- / -	34 / 32.036
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 13.956	- / -	- / -	12 / 13.956
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 15.400	4 / 7.824	- / -	21 / 23.224
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 19.877	- / -	22 / 19.877
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 6.392	31 / 34.306	37 / 40.698
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 11.066	10 / 11.066
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	12 / 7.436	14 / 10.695	16 / 12.149	6 / 4.491	- / -	6 / 4.491	32 / 26.907	32 / 30.051	32 / 32.182	32 / 34.093	41 / 45.372	217 / 203.376

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	12	3	3	4	4	4	4	4	4	2	2	2	-	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	41	217
Out	12	3	3	4	4	4	4	4	4	2	2	2	-	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	41	217

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F01600 / F-16
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207133F, 0207445F, 0809731F	Other Related Program Elements: 0207133F, 0207445F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	961.778	9.042	10.134	97.331	-	97.331	155.264	256.513	320.251	298.085	1,122.059	3,230.457
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	961.778	9.042	10.134	97.331	-	97.331	155.264	256.513	320.251	298.085	1,122.059	3,230.457
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	961.778	9.042	10.134	97.331	-	97.331	155.264	256.513	320.251	298.085	1,122.059	3,230.457

(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-16 is a multi-role fighter capable of employing a wide variety of nuclear and conventional weapons and missiles in both the air-to-surface and air-to-air mission areas. The specific modifications budgeted and programmed are below.

Funding for the Link 16 Crypto mod is budgeted in PE 0207445F.
 Funding for AETC-MTD Trainers mod is budgeted in PE 0809731F.
 Funding for all other F-16 mods in this exhibit is budgeted in PE 0207133F.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.042	10.134	85.013	-	85.013	150.268	252.433	299.824
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	12.318	-	12.318	4.996	4.080	20.427
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.042	10.134	97.331	-	97.331	155.264	256.513	320.251

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

P-1 Line Item Number / Title:
F01600 / F-16

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207133F, 0207445F, 0809731F **Other Related Program Elements:** 0207133F, 0207445F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	602148 / MMC and Display Generator Upgrade (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6023 / FALCON STAR (Capability Improvement)			- / 804.517	- / -	- / -	- / -	- / -	- / -
P-40a***	618250 / Comm Suite Upgrade (Pre-Block) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	618251 / Comm Suite Upgrade (Post-Block) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	618270 / DIGITAL FLIGHT CONTROL COMPUTER (Safety)			- / 10.533	- / 1.000	- / -	- / -	- / -	- / -
P-40a***	624050 / ADVANCED DATA TRANSFER EQUIPMENT (Capability Improvement)			- / 41.304	- / -	- / -	- / -	- / -	- / -
P-40a***	704050 / Digital Radar Warning Receiver (RWR) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)			- / 89.492	- / 6.053	- / 3.305	- / 6.996	- / -	- / 6.996
P-40a***	866250 / F-16 TRAINING SYSTEMS (Capability Improvement)			- / -	- / -	- / 3.250	- / 2.875	- / -	- / 2.875
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 13.900	- / 1.939	- / 0.379	- / 0.742	- / -	- / 0.742
P-40a***	F19427 / F-110 Engine Fire Seal Mod (Safety)			- / 2.032	- / 0.050	- / -	- / -	- / -	- / -
P-3a	602600 / F-16 LEGACY STRUCTURAL SLEP (Service Life Extension)			- / 0.000	- / -	- / -	- / 2.775	- / -	- / 2.775
P-3a	633030 / Aggressors Update (Capability Improvement)			- / -	- / -	- / -	- / 6.925	- / -	- / 6.925
P-3a	661652 / Link 16 Crypto (Capability Improvement)			- / -	- / -	- / 3.200	- / 6.447	- / -	- / 6.447
P-3a	661653 / MIDS-JTRS (Capability Improvement)			- / -	- / -	- / -	- / 14.075	- / -	- / 14.075
P-3a	694050 / HLD AESA Radar JUON (Capability Improvement)			- / -	- / -	- / -	- / 56.496	- / -	- / 56.496
P-40	Total Gross/Weapon System Cost			- / 961.778	- / 9.042	- / 10.134	- / 97.331	- / -	- / 97.331

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	602148 / MMC and Display Generator Upgrade (Capability Improvement)			- / -	- / -	- / 39.745	- / 81.514	- / 192.117	- / 313.376
P-40a***	6023 / FALCON STAR (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 804.517
P-40a***	618250 / Comm Suite Upgrade (Pre-Block) (Capability Improvement)			- / 24.461	- / 43.753	- / 52.557	- / 41.149	- / 7.529	- / 169.449
P-40a***	618251 / Comm Suite Upgrade (Post-Block) (Capability Improvement)			- / -	- / -	- / 48.231	- / -	- / 267.614	- / 315.845
P-40a***	618270 / DIGITAL FLIGHT CONTROL COMPUTER (Safety)			- / -	- / -	- / -	- / -	- / -	- / 11.533
P-40a***	624050 / ADVANCED DATA TRANSFER EQUIPMENT (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 41.304
P-40a***	704050 / Digital Radar Warning Receiver (RWR) (Capability Improvement)			- / -	- / -	- / 45.055	- / -	- / -	- / 45.055
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)			- / 5.283	- / 5.379	- / 5.474	- / 5.576	- / -	- / 127.558
P-40a***	866250 / F-16 TRAINING SYSTEMS (Capability Improvement)			- / 3.943	- / 4.331	- / 4.302	- / 4.391	- / -	- / 23.092

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F01600 / F-16

ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207133F, 0207445F, 0809731F	Other Related Program Elements: 0207133F, 0207445F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.002	- / 0.002	- / 0.002	- / 0.100	- / -	- / 17.066
P-40a***	F19427 / F-110 Engine Fire Seal Mod (Safety)			- / -	- / -	- / -	- / -	- / -	- / 2.082
P-3a	602600 / F-16 LEGACY STRUCTURAL SLEP (Service Life Extension)			- / 18.098	- / 36.978	- / 67.479	- / 112.546	- / 653.123	- / 890.999
P-3a	633030 / Aggressors Update (Capability Improvement)			- / 5.298	- / 1.163	- / -	- / -	- / -	- / 13.386
P-3a	661652 / Link 16 Crypto (Capability Improvement)			- / 6.117	- / 6.755	- / 8.371	- / 8.525	- / -	- / 39.415
P-3a	661653 / MIDS-JTRS (Capability Improvement)			- / 76.189	- / 156.168	- / 48.043	- / 44.284	- / 1.676	- / 340.435
P-3a	694050 / HLD AESA Radar JUON (Capability Improvement)			- / 15.873	- / 1.984	- / 0.992	- / -	- / -	- / 75.345
P-40	Total Gross/Weapon System Cost			- / 155.264	- / 256.513	- / 320.251	- / 298.085	- / 1,122.059	- / 3,230.457

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01600 / F-16				Modification Number / Title: 602600 / F-16 LEGACY STRUCTURAL SLEP				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	2.775	-	2.775	18.098	36.978	67.479	112.546	653.123	890.999
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	2.775	-	2.775	18.098	36.978	67.479	112.546	653.123	890.999
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	2.775	-	2.775	18.098	36.978	67.479	112.546	653.123	890.999
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 602600, F-16 LEGACY STRUCTURAL SLEP, is a new start.

The fundamental goal of this program is to extend the F-16 service life beyond 8000 Equivalent Flying Hours (EFH) to ensure a continually viable fighter force. Blocks 40/42 and 50/52 F-16 aircraft need modifications and structural enhancements to extend the service life of these fighters. The F-16 Structural SLEP is intended to be a depot-level upgrade program to replace or rework known life-limited structure to preclude the onset of widespread fatigue damage, maintain safety of flight and enhance aircraft availability. Life-limited components and required installation dates will vary by aircraft block and will be determined via the F-16 Full Scale Durability Test (FSDT) and EMD phase. Without modification of life-limited structures, the F-16 will experience continued structural degradation, which will adversely affect future mission capable rates and become increasingly costly to correct. Because of potential variation in modification requirements and installation schedules among aircraft blocks, the quantity and unit cost of kit procurement and hardware installation will differ from year to year, depending on the mix of aircraft involved.

Milestone/Development Status

The FSDT contract was awarded on April 28, 2011, while the Engineering and Manufacturing Development was awarded Nov 13, 2013. Development efforts run through 2016. Following successful kit proofing, the program will purchase kits in a low rate production phase and then transition into full rate production. Two aircraft will be modified as part of the EMD program.

F-16 LEGACY STRUCTURAL SLEP / mod #602600, is an FY17 procurement new start.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	2.775	-	2.775	18.098	36.978	67.479	112.546
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	2.775	-	2.775	18.098	36.978	67.479	112.546

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01600 / F-16					Modification Number / Title: 602600 / F-16 LEGACY STRUCTURAL SLEP			
Models of Systems Affected: F-16				Modification Type: Service Life Extension				Related RDT&E PEs: 0207133F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0207133F	- / 141.662	- / 11.776	2 / 2.830	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 56.268	
Procurement													
Modification Item 1 of 1: Legacy SLEP Kit													
A Kits													
Recurring													
Legacy SLEP Kit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.549	18 / 13.774	41 / 29.712	43 / 29.891	192 / 143.472	298 / 219.398	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.549	- / 13.774	- / 29.712	- / 29.891	- / 143.472	- / 219.398	
<i>Subtotal: Legacy SLEP Kit</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.549	- / 13.774	- / 29.712	- / 29.891	- / 143.472	- / 219.398	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.549	- / 13.774	- / 29.712	- / 29.891	- / 143.472	- / 219.398	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.188	- / 1.114	- / 3.541	- / 7.444	- / 41.661	- / 53.948	
SUPPORT-EQUIP	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.140	- / 0.251	- / 0.304	- / 0.429	- / 2.842	- / 9.966	
PMA - Contractor Services	- / -	- / -	- / -	- / 0.581	- / -	- / 0.581	- / 0.598	- / 0.616	- / 0.634	- / 0.453	- / 2.474	- / 5.356	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.056	- / -	- / 0.056	- / 0.564	- / 1.017	- / 2.063	- / 3.413	- / 19.653	- / 26.766	
OTHER GOVT	- / -	- / -	- / -	- / 12.138	- / -	- / 12.138	- / 18.059	- / 6.918	- / 2.478	- / 3.505	- / 20.850	- / 43.948	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 12.775	- / -	- / 12.775	- / 15.549	- / 9.916	- / 9.020	- / 15.244	- / 87.480	- / 139.984	
Installation													
Modification Item 1 of 1: Legacy SLEP Kit	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 13.288	18 / 28.747	41 / 67.411	235 / 422.171	298 / 531.617	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 13.288	18 / 28.747	41 / 67.411	235 / 422.171	298 / 531.617	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	2.775	-	2.775	18.098	36.978	67.479	112.546	653.123	890.999	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 602600 / F-16 LEGACY STRUCTURAL SLEP

Modification Item 1 of 1: Legacy SLEP Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Feb 2018	Feb 2019	Feb 2020	Feb 2021
Delivery Dates				Aug 2018	Aug 2019	Aug 2020	Aug 2021

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 13.288	- / -	- / -	- / -	4 / 13.288
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 28.747	- / -	- / -	18 / 28.747
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	41 / 67.411	- / -	41 / 67.411
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 72.786	43 / 72.786
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	192 / 349.385	192 / 349.385
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 13.288	18 / 28.747	41 / 67.411	235 / 422.171	298 / 531.617

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	4	4	5	5	10	10	10	11	235	298
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	4	4	5	5	10	10	256	298

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01600 / F-16				Modification Number / Title: 633030 / Aggressors Update			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	6.925	-	6.925	5.298	1.163	-	-	-	13.386
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	6.925	-	6.925	5.298	1.163	-	-	-	13.386
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	6.925	-	6.925	5.298	1.163	-	-	-	13.386

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

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

Description:

This program, P-3A Mod 633030, Aggressors Update, is a new start.

The Aggressor Software Capability Upgrade (SCU)8 program will provide upgrades to F-16 Aggressor aircraft located at Eielson and Nellis Air Bases (39 aircraft) to bring the Aggressor fleet to a SCU 8 configuration. These upgrades will include Common Fire Control Computer (CFCC), Ethernet XMUX (multiplex bus), Situation Awareness Data Link (SADL), ALQ-213 Advanced Processing Unit (APU) and Secure Line of Sight (SLOS). In addition to these capabilities, the Aggressor SCU 8 program will allow these aircraft to receive other important upgrades in the future, including the Central Display Unit (CDU), Helmet Mounted Integrated Targeting (HMIT) and 3rd Radio.

Milestone/Development Status

This program, P-3A Mod 633030, Aggressors Update, is an FY17 procurement new start.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	6.925	-	6.925	5.298	1.163	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	6.925	-	6.925	5.298	1.163	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01600 / F-16					Modification Number / Title: 633030 / Aggressors Update			
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Aggressor Update Kits</i>													
A Kits													
Recurring													
Aggressor Update Kits:INSTALL KITS Group A (Active)	- / -	- / -	- / -	20 / 4.300	- / -	20 / 4.300	19 / 4.180	- / -	- / -	- / -	- / -	39 / 8.480	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 4.300	- / -	- / 4.300	- / 4.180	- / -	- / -	- / -	- / -	- / 8.480	
<i>Subtotal: Aggressor Update Kits</i>	- / -	- / -	- / -	- / 4.300	- / -	- / 4.300	- / 4.180	- / -	- / -	- / -	- / -	- / 8.480	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 4.300	- / -	- / 4.300	- / 4.180	- / -	- / -	- / -	- / -	- / 8.480	
Support (All Modification Items)													
OTHER GOVT	- / -	- / -	- / -	- / 12.625	- / -	- / 12.625	- / -	- / 10.080	- / -	- / -	- / -	- / 12.705	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 12.625	- / -	- / 12.625	- / -	- / 10.080	- / -	- / -	- / -	- / 12.705	
Installation													
<i>Modification Item 1 of 1: Aggressor Update Kits</i>	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.118	19 / 1.083	- / -	- / -	- / -	39 / 2.201	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.118	19 / 1.083	- / -	- / -	- / -	39 / 2.201	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	6.925	-	6.925	5.298	1.163	-	-	-	13.386	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633030 / Aggressors Update

Modification Item 1 of 1: Aggressor Update Kits

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Apr 2017	Apr 2018			
Delivery Dates			Apr 2018	Apr 2019			

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.118	- / -	- / -	- / -	- / -	20 / 1.118
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 1.083	- / -	- / -	- / -	19 / 1.083
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.118	19 / 1.083	- / -	- / -	- / -	39 / 2.201

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	9	-	-	-	-	-	-	-	-	-	-	-	-	-	39
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	9	-	-	-	-	-	-	-	-	-	-	-	-	39

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01600 / F-16			Modification Number / Title: 661652 / Link 16 Crypto				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	3.200	6.447	-	6.447	6.117	6.755	8.371	8.525	-	39.415
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	3.200	6.447	-	6.447	6.117	6.755	8.371	8.525	-	39.415
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	3.200	6.447	-	6.447	6.117	6.755	8.371	8.525	-	39.415

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

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

Description:

The Chairman, Joint Chiefs of Staff directed a modernization effort at the recommendation of the National Security Agency (NSA) to modernize equipment and provide enhanced security for Link 16 tactical networks (Cryptographic Modernization (CM)). Likewise, a radio frequency spectrum memorandum of agreement between the DoD and the Department of Transportation mandate the internal frequency remapping for our Link 16 family of terminals to avoid conflict with next generation Federal Aviation Administration radio aids to navigation. These two mandates, among other operational reliability and capability improvements will be satisfied under a Block Upgrade 2 (BU2) effort planned for the Link 16 Multifunctional Information Distribution System (MIDS) Low Volume Terminal (LVT). BU2 will procure new Signal Message Processor (SMP) cards that incorporate the most current NSA-mandated cryptographic standards. BU2 will also procure new Tailored Processor/Ground Multiplexer cards, update software and firmware in the MIDS LVT to improve operational reliability and provide the radio the ability to remap the lower frequency range of the terminal. The new cards will be installed in all terminals and spare cards will also be purchased. The BU2 upgrade of the LVT will impact fighter aircraft. Funding for this effort contained in PE 0207445F.

Milestone/Development Status

EMD for this program is being accomplished within the F-16 RDT&E program. A total of 23 (15 on aircraft) MIDS-JTRS test assets units were procured in FY15 with F-16 RDT&E funds. Retrofit Modification kits are being developed under a Navy contract as part of the LVT Block Upgrade 2.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.200	6.447	-	6.447	6.117	4.148	5.360	8.525
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	2.607	3.011	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.200	6.447	-	6.447	6.117	6.755	8.371	8.525

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01600 / F-16					Modification Number / Title: 661652 / Link 16 Crypto			
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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> Link 16 Crypto													
B Kits													
Recurring													
Link 16 Crypto:EQUIPMENT Group B (Active)	- / -	- / -	21 / 2.335	41 / 5.225	- / -	41 / 5.225	36 / 4.917	31 / 2.873	40 / 3.907	63 / 7.043	- / -	232 / 26.300	
Link 16 Crypto:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 2.607	23 / 3.011	- / -	- / -	43 / 5.618	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 2.335	- / 5.225	- / -	- / 5.225	- / 4.917	- / 5.480	- / 6.918	- / 7.043	- / -	- / 31.918	
<i>Subtotal: Link 16 Crypto</i>	- / -	- / -	- / 2.335	- / 5.225	- / -	- / 5.225	- / 4.917	- / 5.480	- / 6.918	- / 7.043	- / -	- / 31.918	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 2.335	- / 5.225	- / -	- / 5.225	- / 4.917	- / 5.480	- / 6.918	- / 7.043	- / -	- / 31.918	
Support (All Modification Items)													
OTHER GOVT	- / -	- / -	- / 0.865	- / 1.222	- / -	- / 1.222	- / 1.200	- / 1.275	- / 1.453	- / 1.482	- / -	- / 17.497	
<i>Subtotal: Support</i>	- / -	- / -	- / 0.865	- / 1.222	- / -	- / 1.222	- / 1.200	- / 1.275	- / 1.453	- / 1.482	- / -	- / 17.497	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	-	3.200	6.447	-	6.447	6.117	6.755	8.371	8.525	-	39.415	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01600 / F-16		Modification Number / Title: 661652 / Link 16 Crypto		
Modification Item 1 of 1: Link 16 Crypto							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 9			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021
Delivery Dates		Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 275		

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Exhibit P-3a, Individual Modification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 661653 / MIDS-JTRS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	14.075	-	14.075	76.189	156.168	48.043	44.284	1.676	340.435
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	14.075	-	14.075	76.189	156.168	48.043	44.284	1.676	340.435
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	14.075	-	14.075	76.189	156.168	48.043	44.284	1.676	340.435

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

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

Description:

This program, P-3A Mod 661653, MIDS-JTRS, is a new start.

The Chairman, Joint Chiefs of Staff directed a modernization effort at the recommendation of the National Security Agency (NSA) to modernize equipment and provide enhanced security for Link 16 tactical networks (Cryptographic Modernization (CM)). Likewise, a radio frequency spectrum memorandum of agreement between the DoD and the Department of Transportation mandate the internal frequency remapping for our Link 16 family of terminals to avoid conflict with next generation Federal Aviation Administration radio aids to navigation. These two mandates will be satisfied by replacing existing Link 16 Multi-functional Information Distribution System (MIDS) Low Volume Terminals (LVT) with MIDS-Joint Tactical Radio System (JTRS) CMN-4 terminals. MIDS-JTRS terminals will also improve the F-16 capability by providing higher data bandwidth, lower latency, and growth capability to ultimately incorporate secure, jam-resistant J-Voice and three growth slots which could host additional waveforms (Mobile User Objective System (MUOS), Integrated Broadcast Service (IBS), etc.). Also, the terminals will include 4-Channel Concurrent Multi-netting(CMN-4)and Concurrent Contention Receive (CCR) capabilities, which are ACC requirements and critical to F-16 Link 16 network sustainability and capability.

EMD for this program is being accomplished within the F-16 RDT&E program. A total of 23 (15 on aircraft) MIDS-JTRS test assets units were procured in FY15 with F-16 RDT&E funds.

Milestone/Development Status

EMD is being accomplished as part of the F-16 OFP Updates program.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.757	-	1.757	71.193	154.695	30.627	42.840
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	12.318	-	12.318	4.996	1.473	17.416	1.444
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	14.075	-	14.075	76.189	156.168	48.043	44.284

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01600 / F-16					Modification Number / Title: 661653 / MIDS-JTRS			
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs: 0207445F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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> MIDS-JTRS													
A Kits													
Recurring													
MIDS-JTRS:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.693	- / 6.052	- / 5.927	- / 1.550	- / 14.222	
MIDS-JTRS:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.473	- / -	- / 1.444	- / -	- / 12.917	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.166	- / 6.052	- / 7.371	- / 1.550	- / 17.139	
B Kits													
Recurring													
MIDS-JTRS:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	178 / 54.468	300 / 92.013	7 / 2.177	20 / 6.150	- / -	505 / 154.808	
MIDS-JTRS:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	34 / 12.318	- / -	34 / 12.318	16 / 4.996	- / -	56 / 17.416	- / -	- / -	106 / 34.730	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 12.318	- / -	- / 12.318	- / 59.464	- / 92.013	- / 19.593	- / 6.150	- / -	- / 189.538	
<i>Subtotal: MIDS-JTRS</i>	- / -	- / -	- / -	- / 12.318	- / -	- / 12.318	- / 59.464	- / 94.179	- / 25.645	- / 13.521	- / 1.550	- / 206.677	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 12.318	- / -	- / 12.318	- / 59.464	- / 94.179	- / 25.645	- / 13.521	- / 1.550	- / 206.677	
Support (All Modification Items)													
SUPPORT-EQUIP	- / -	- / -	- / -	1 / 0.248	- / -	1 / 0.248	4 / 1.021	13 / 3.418	- / -	- / -	- / -	18 / 4.687	
Change Orders	- / -	- / -	- / -	- / 0.553	- / -	- / 0.553	- / 3.011	- / 4.880	- / 1.282	- / 0.676	- / 0.078	- / 10.480	
OTHER GOVT	- / -	- / -	- / -	- / 0.956	- / -	- / 0.956	- / 12.693	- / 53.691	- / 21.116	- / 30.087	- / 0.048	- / 118.591	
<i>Subtotal: Support</i>	- / -	- / -	- / -	1 / 1.757	- / -	1 / 1.757	4 / 16.725	13 / 61.989	- / 22.398	- / 30.763	- / 0.126	18 / 133.758	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	14.075	-	14.075	76.189	156.168	48.043	44.284	1.676	340.435	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 661653 / MIDS-JTRS
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Modification Item 1 of 1: MIDS-JTRS

Manufacturer Information

Manufacturer Name: TBD - Competition	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			May 2017	May 2018	May 2019	May 2020	
Delivery Dates			May 2018	May 2019	May 2020	May 2021	

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 611
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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01600 / F-16			Modification Number / Title: 694050 / HLD AESA Radar JUON				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	56.496	-	56.496	15.873	1.984	0.992	-	-	75.345
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	56.496	-	56.496	15.873	1.984	0.992	-	-	75.345
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	56.496	-	56.496	15.873	1.984	0.992	-	-	75.345

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

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

Description:

This program, P-3A Mod 694050, HLD AESA Radar JUON, is a new start.

The purpose of the F-16 Active Electronically Scanned Array (AESA) Radar program is to develop, test, integrate, procure, install and sustain AESA radars plus spares for the Air National Guard, Air Force Reserve, and the active duty Air Force F-16s, across all blocks of F-16 aircraft (Block 30/32/40/42/40/52). The new AESA radar will replace the legacy mechanically-scanned AN/APG-68 radar. The key requirements are enhanced Air to Air capability and an expedited delivery schedule. It is imperative to operationally field the AESA radar in support of homeland defense against evolving threats.

The Joint Urgent Operational Need (JUON) requirement was issued in March 2015 and includes improved air-to-air detect and track in support of homeland defense on up to 72 aircraft performing the Aerospace Control Alert (ACA) mission. Phase 1 of the JUON includes basic development, test and integration over the legacy 1553B interface of 24 aircraft upgraded with AESA radar and associated spares. That program is documented in this exhibit. An anticipated Phase 2 will include additional testing and verification of legacy capabilities and fielding radars on up to an additional 48 aircraft. Phase 3 consists of the development of the full radar capability via an Ethernet interface in accordance with the USAF Radar Modernization Program (RMP) Capability Description Document (CDD) requirements issued in 2012. Phase 3 also provides for the fielding of AESA radars on up to an additional 300 ACC/ANG/AFRC aircraft. All radar assets will be purchased through contract options. The contract will also include options for support equipment, field service representatives, Interim Contractor Support (ICS), the technical data package, and depot stand-up.

To facilitate the most expedient operational capability, the JUON integration will be accomplished via the 1553 legacy interface with minimal changes to the F-16 aircraft core Operational Flight Program (OFP) during Phase 1 and Phase 2 of the F-16 AESA JUON program.

The F-16 AESA JUON requirement for Phases 1-2 was validated by J8/DDR validated on 12 Mar 15 and assigned to the USAF by the JRAC in Apr 15. The requirements for Phase 3 are established in the F-16 RMP CDD approved 16 Apr 12.

Milestone/Development Status

Development for the AESA JUON Radar effort began in FY16.

This program, P-3A Mod 694050, AESA JUON, is an FY17 procurement new start.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	56.496	-	56.496	15.873	1.984	0.992	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 694050 / HLD AESA Radar JUON
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	56.496	-	56.496	15.873	1.984	0.992	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01600 / F-16					Modification Number / Title: 694050 / HLD AESA Radar JUON			
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs: 0207133F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0207133F	- / -	- / -	- / 40.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 40.000	
Procurement													
Modification Item 1 of 1: AESA Radar													
A Kits													
Recurring													
AESA Radar:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / 10.392	- / -	- / 10.392	- / -	- / -	- / -	- / -	- / -	- / 10.392	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 10.392	- / -	- / 10.392	- / -	- / -	- / -	- / -	- / -	- / 10.392	
B Kits													
Recurring													
AESA Radar:EQUIPMENT Group B (Active)	- / -	- / -	- / -	24 / 50.470	- / -	24 / 50.470	- / -	- / -	- / -	- / -	- / -	24 / 50.470	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 50.470	- / -	- / 50.470	- / -	- / -	- / -	- / -	- / -	- / 50.470	
<i>Subtotal: AESA Radar</i>	- / -	- / -	- / -	- / 50.862	- / -	- / 50.862	- / -	- / -	- / -	- / -	- / -	- / 50.862	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 50.862	- / -	- / 50.862	- / -	- / -	- / -	- / -	- / -	- / 50.862	
Support (All Modification Items)													
SUPPORT-EQUIP	- / -	- / -	- / -	- / 10.472	- / -	- / 10.472	- / -	- / -	- / -	- / -	- / -	- / 10.472	
Change Orders	- / -	- / -	- / -	- / 12.572	- / -	- / 12.572	- / 10.130	- / -	- / -	- / -	- / -	- / 12.702	
OTHER GOVT	- / -	- / -	- / -	- / 12.590	- / -	- / 12.590	- / 10.241	- / -	- / -	- / -	- / -	- / 12.831	
ICS-Labor	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.063	- / 11.087	- / 0.992	- / -	- / -	- / 13.142	
Make New Selection	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.941	- / -	- / -	- / -	- / -	- / 11.941	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 5.634	- / -	- / 5.634	- / 13.375	- / 11.087	- / 0.992	- / -	- / -	- / 21.088	
Installation													
Modification Item 1 of 1: AESA Radar	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.498	14 / 0.897	- / -	- / -	- / -	24 / 3.395	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.498	14 / 0.897	- / -	- / -	- / -	24 / 3.395	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	56.496	-	56.496	15.873	1.984	0.992	-	-	75.345	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 694050 / HLD AESA Radar JUON

Modification Item 1 of 1: AESA Radar

Manufacturer Information

Manufacturer Name: to be competed	Manufacturer Location: unknown
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 18

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017				
Delivery Dates			Jul 2018				

Installation Information

Method of Implementation: Depot Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.498	14 / 0.897	- / -	- / -	- / -	24 / 3.395
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.498	14 / 0.897	- / -	- / -	- / -	24 / 3.395

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	5	4	-	-	-	-	-	-	-	-	-	-	-	-	24
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	5	4	-	-	-	-	-	-	-	-	-	-	-	24

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F02200 / F-22A
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207138F	Other Related Program Elements: 0207138F
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Line Item MDAP/MAIS Code: 265	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,154.856	180.207	116.077	163.008	-	163.008	166.372	181.291	331.310	486.206	52.206	3,831.533
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,154.856	180.207	116.077	163.008	-	163.008	166.372	181.291	331.310	486.206	52.206	3,831.533
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,154.856	180.207	116.077	163.008	-	163.008	166.372	181.291	331.310	486.206	52.206	3,831.533

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

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

Description:

The F-22 Raptor provides air superiority to the Joint Force; access in the highly contested operational environment; as well as, homeland and cruise missile defense for the next 25+ years. The F-22 is the only operational multi-mission fighter aircraft that combines stealth, supercruise, maneuverability and integrated avionics to make it the world's most capable aircraft. The F-22 is currently in the post-production operations phase of it's acquisition lifecycle and therefore utilizes an acquisition strategy of balanced modernization and sustainment to maintain it's asymmetric war fighting advantage. F-22 modernization and sustainment programs invest in upgrades to the air vehicle, engine, and training systems to improve F-22 weapons, communications, and Intelligence Surveillance Reconnaissance (ISR) capabilities.

The FY2017 funding request was reduced by \$11 million to account for the availability of prior year execution balances

Funding for the exhibit contained in PE 0207138F.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	168.826	102.643	149.640	-	149.640	145.274	171.126	317.729	477.120
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	11.381	13.434	13.368	-	13.368	21.098	10.165	13.581	9.086
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	180.207	116.077	163.008	-	163.008	166.372	181.291	331.310	486.206

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

P-1 Line Item Number / Title:
F02200 / F-22A

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207138F **Other Related Program Elements:** 0207138F

Line Item MDAP/MAIS Code: 265 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	F22001 / COMMON CONFIGURATION (Capability Improvement)			- / 664.736	- / 1.290	- / 2.051	- / 1.131	- / -	- / 1.131
P-40a***	F22003 / INCREMENT 3.1 (Capability Improvement)			- / 243.257	- / 3.180	- / 3.335	- / 2.877	- / -	- / 2.877
P-40a***	F22007 / Helmet Mounted Display and Cueing System (HMDCS) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	F22024 / Trainers Modernization (Safety)			- / 68.546	- / 9.698	- / 4.015	- / 4.067	- / -	- / 4.067
P-40a***	F22027 / Crypto Modernization (Capability Improvement)			- / 3.704	- / -	- / -	- / -	- / -	- / -
P-40a***	F22030 / Tactical Mandates (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	F22033 / Sensor Enhancement (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / Reliability and Maintainability Maturation Program (Reliability & Maintainability)			- / 916.973	- / 130.780	- / 77.444	- / 125.835	- / -	- / 125.835
P-3a	2 / F119 Engine Modifications (Other)			- / 43.177	- / 10.716	- / 15.900	- / 14.500	- / -	- / 14.500
P-3a	3 / Structures Retrofit Plan (Service Life Extension)			- / 214.463	- / 24.543	- / 13.332	- / 14.598	- / -	- / 14.598
P-40	Total Gross/Weapon System Cost			- / 2,154.856	- / 180.207	- / 116.077	- / 163.008	- / -	- / 163.008

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	F22001 / COMMON CONFIGURATION (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 669.208
P-40a***	F22003 / INCREMENT 3.1 (Capability Improvement)			- / 0.139	- / -	- / -	- / -	- / -	- / 252.788
P-40a***	F22007 / Helmet Mounted Display and Cueing System (HMDCS) (Capability Improvement)			- / -	- / -	- / -	- / 1.900	- / 39.700	- / 41.600
P-40a***	F22024 / Trainers Modernization (Safety)			- / 4.143	- / 4.229	- / 4.351	- / 4.533	- / -	- / 103.582
P-40a***	F22027 / Crypto Modernization (Capability Improvement)			- / -	- / 11.657	- / 8.918	- / -	- / -	- / 24.279
P-40a***	F22030 / Tactical Mandates (Capability Improvement)			- / -	- / 106.032	- / 129.598	- / 143.887	- / 12.506	- / 392.023
P-40a***	F22033 / Sensor Enhancement (Capability Improvement)			- / 5.000	- / -	- / 66.000	- / 248.000	- / -	- / 319.000
P-3a	1 / Reliability and Maintainability Maturation Program (Reliability & Maintainability)			- / 129.723	- / 42.013	- / 95.921	- / 69.029	- / -	- / 1,587.718
P-3a	2 / F119 Engine Modifications (Other)			- / 13.200	- / 12.002	- / 21.300	- / 18.857	- / -	- / 149.652
P-3a	3 / Structures Retrofit Plan (Service Life Extension)			- / 14.167	- / 5.358	- / 5.222	- / -	- / -	- / 291.683
P-40	Total Gross/Weapon System Cost			- / 166.372	- / 181.291	- / 331.310	- / 486.206	- / 52.206	- / 3,831.533

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F02200 / F-22A				Modification Number / Title: 1 / Reliability and Maintainability Maturation Program				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	916.973	130.780	77.444	125.835	-	125.835	129.723	42.013	95.921	69.029	-	1,587.718
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	916.973	130.780	77.444	125.835	-	125.835	129.723	42.013	95.921	69.029	-	1,587.718
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	916.973	130.780	77.444	125.835	-	125.835	129.723	42.013	95.921	69.029	-	1,587.718
<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 Reliability, Availability, and Maintainability Maturation Program (RAMMP) provides for the development and integration of upgrades to improve reliability, availability and maintainability (RAM) for the F-22 fleet. The associated RAMMP effort develops candidate RAMMP initiatives which are down-selected for implementation based on their development maturity and impact on the F-22 life cycle costs. RAMMP also includes depot touch labor and throughput for diminishing manufacturing sources projects, modifications to address corrosion, and urgent response requirements for the aircraft such as Automatic Back-Up Oxygen System (ABOS). RAMMP retrofit kit purchases currently include individual RAMMP projects, totaling over 2,100 kits. In FY2017 RAMMP kit purchases and installs will include Configurable Rail Launchers (CRL) AIM-9X extension kits required to modify the existing CRLs to carry AIM-9X missiles. F-22 availability was maintained at approximately 59% for FY2015. Kit installations are done either at the depot or by a contractor field team depending on the complexity of the effort. RAMMP includes Mission Support Requirements.

Milestone/Development Status

The development effort continually provides Research and Development projects to increase Reliability, Availability, and Maintainability of the aircraft through the FYDP. As these projects are tested and qualified, they are implemented via the retrofit program.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	121.922	68.909	120.416	-	120.416	117.183	37.140	89.889	63.439
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.858	8.535	5.419	-	5.419	12.540	4.873	6.032	5.590
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	130.780	77.444	125.835	-	125.835	129.723	42.013	95.921	69.029

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Exhibit P-3a, Individual Modification: PB 2017 Air Force											Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F02200 / F-22A				Modification Number / Title: 1 / Reliability and Maintainability Maturation Program					
Models of Systems Affected: F-22				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207138F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: RAMMP Kits</i>													
B Kits													
Recurring													
RAMMP Kits:EQUIPMENT Group B (Active)	3,748 / 554.552	1,241 / 41.362	948 / 32.059	1,104 / 71.731	- / -	1,104 / 71.731	946 / 57.500	300 / 16.823	950 / 45.060	690 / 33.453	- / -	9,927 / 852.540	
RAMMP Kits:EQUIPMENT Group B (Guard)	580 / 45.158	197 / 4.299	86 / 5.657	34 / 2.218	- / -	34 / 2.218	14 / 7.832	6 / 3.333	16 / 2.496	39 / 3.333	- / -	972 / 74.326	
<i>Subtotal: Recurring</i>	- / 599.710	- / 45.661	- / 37.716	- / 73.949	- / -	- / 73.949	- / 65.332	- / 20.156	- / 47.556	- / 36.786	- / -	- / 926.866	
<i>Subtotal: RAMMP Kits</i>	- / 599.710	- / 45.661	- / 37.716	- / 73.949	- / -	- / 73.949	- / 65.332	- / 20.156	- / 47.556	- / 36.786	- / -	- / 926.866	
<i>Subtotal: Procurement, All Modification Items</i>	- / 599.710	- / 45.661	- / 37.716	- / 73.949	- / -	- / 73.949	- / 65.332	- / 20.156	- / 47.556	- / 36.786	- / -	- / 926.866	
Support (All Modification Items)													
PMA - Other Gov't Costs	- / 17.861	- / 3.580	- / 2.969	- / 3.155	- / -	- / 3.155	- / 3.551	- / 1.920	- / 1.895	- / -	- / -	- / 34.931	
<i>Subtotal: Support</i>	- / 17.861	- / 3.580	- / 2.969	- / 3.155	- / -	- / 3.155	- / 3.551	- / 1.920	- / 1.895	- / -	- / -	- / 34.931	
Installation													
<i>Modification Item 1 of 1: RAMMP Kits</i>	4,328 / 299.402	1,438 / 81.539	1,034 / 36.759	1,138 / 48.731	- / -	1,138 / 48.731	960 / 60.840	306 / 19.937	966 / 46.470	729 / 32.243	- / -	10,899 / 625.921	
<i>Subtotal: Installation</i>	4,328 / 299.402	1,438 / 81.539	1,034 / 36.759	1,138 / 48.731	- / -	1,138 / 48.731	960 / 60.840	306 / 19.937	966 / 46.470	729 / 32.243	- / -	10,899 / 625.921	
Total													
Total Cost (Procurement + Support + Installation)	916.973	130.780	77.444	125.835	-	125.835	129.723	42.013	95.921	69.029	-	1,587.718	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 1 / Reliability and Maintainability Maturation Program

Modification Item 1 of 1: RAMMP Kits

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Hill AFB
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	248 / 14.527	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	248 / 14.527
FY 2016	- / -	- / -	190 / 6.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	190 / 6.101
FY 2017	- / -	- / -	- / -	221 / 7.330	- / -	221 / 7.330	- / -	- / -	- / -	- / -	- / -	221 / 7.330
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	189 / 11.993	- / -	- / -	- / -	- / -	189 / 11.993
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 3.960	- / -	- / -	- / -	55 / 3.960
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	190 / 8.587	- / -	- / -	190 / 8.587
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 5.804	- / -	138 / 5.804
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	248 / 14.527	190 / 6.101	221 / 7.330	- / -	221 / 7.330	189 / 11.993	55 / 3.960	190 / 8.587	138 / 5.804	- / -	1,231 / 58.302

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	62	62	62	62	47	47	48	48	55	55	55	56	47	47	47	48	13	14	14	14	47	47	48	48	34	34	35	35	-	1,231
Out	0	62	62	62	62	47	47	48	48	55	55	55	56	47	47	47	48	13	14	14	14	47	47	48	48	34	34	35	35	-	1,231

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4,328 / 299.402	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,328 / 299.402

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 1 / Reliability and Maintainability Maturation Program

Modification Item 1 of 1: RAMMP Kits

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	1,190 / 67.012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,190 / 67.012
FY 2016	- / -	- / -	844 / 30.658	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	844 / 30.658
FY 2017	- / -	- / -	- / -	917 / 41.401	- / -	917 / 41.401	- / -	- / -	- / -	- / -	- / -	917 / 41.401
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	771 / 48.847	- / -	- / -	- / -	- / -	771 / 48.847
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	251 / 15.977	- / -	- / -	- / -	251 / 15.977
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	776 / 37.883	- / -	- / -	776 / 37.883
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	591 / 26.439	- / -	591 / 26.439
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4,328 / 299.402	1,190 / 67.012	844 / 30.658	917 / 41.401	- / -	917 / 41.401	771 / 48.847	251 / 15.977	776 / 37.883	591 / 26.439	- / -	9,668 / 567.619

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4,328	297	297	298	298	211	211	211	211	229	229	229	230	192	193	193	193	62	63	63	63	194	194	194	194	147	148	148	148	-	9,668
Out	4,328	297	297	298	298	211	211	211	211	229	229	229	230	192	193	193	193	62	63	63	63	194	194	194	194	147	148	148	148	-	9,668

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F02200 / F-22A						Modification Number / Title: 2 / F119 Engine Modifications	

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	43.177	10.716	15.900	14.500	-	14.500	13.200	12.002	21.300	18.857	-	149.652
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	43.177	10.716	15.900	14.500	-	14.500	13.200	12.002	21.300	18.857	-	149.652
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	43.177	10.716	15.900	14.500	-	14.500	13.200	12.002	21.300	18.857	-	149.652

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

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

Description:

This program includes F119 Engine modifications, depot labor, and the support equipment (SE) tooling required for F119 upgrades to improve long-term engine sustainment. This program funds modifications for engines in 181 aircraft and approximately 107 whole engine spares. Quantities reflect individual kit procurement and installation. Engine modifications are necessary to improve the safety, reliability, maintainability, sustainability, mission performance, and affordability of the F119 engine in order to achieve full life status of 8,650 Total Accumulated Cycles (TAC). Engine depot inductions and inspections are funded through this program including depot and SE tooling for F119 Engine Parts to support F119 Engine depot modifications. Engines enter into depot induction, get inspected and when new issues are discovered, corrections are developed via the engine Component Improvement Program (CIP), PE 0207268F, and are implemented via modifications. Induction inspections are based on TAC counts. The 2,300 TAC core inductions began in FY11 and carry through FY19; the 5th stage Integrally Bladed Rotor (IBR) is limited to 3,600 TAC depot induction starting in CY14 and ending in CY17. The next phase of inductions will occur at 4,325 TACs, also known as half-life inspections. These inspections began in the second half of FY13 and will continue through the FYDP. The 4,325 TAC inspections will refurbish the F119 Engine in order to achieve full life of 8,650 TACs. Inspections may generate maintenance and repair actions that will require engine modifications. Kit installations are done either at the depot or by field teams depending on the complexity of the effort. F119 Engine Modifications includes Mission Support Requirements.

Milestone/Development Status

Development accomplished via the Engine Component Improvement Program (CIP), PE 0207268F.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.483	14.221	11.780	-	11.780	10.720	9.741	17.300	15.361
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.233	1.679	2.720	-	2.720	2.480	2.261	4.000	3.496
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.716	15.900	14.500	-	14.500	13.200	12.002	21.300	18.857

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F02200 / F-22A					Modification Number / Title: 2 / F119 Engine Modifications			
Models of Systems Affected: F-22				Modification Type: Other				Related RDT&E PEs: 0207138F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Engine Modification Kits</i>													
B Kits													
Recurring													
Engine Modification Kits:EQUIPMENT Group B (Active)	2,709 / 33.839	428 / 4.554	1,624 / 6.205	1,225 / 5.780	- / -	1,225 / 5.780	1,112 / 5.270	1,006 / 4.803	1,051 / 8.500	904 / 7.523	- / -	10,059 / 76.474	
Engine Modification Kits:EQUIPMENT Group B (Guard)	306 / 3.242	76 / 0.804	571 / 1.095	430 / 1.020	- / -	430 / 1.020	390 / 0.930	354 / 0.848	368 / 1.500	317 / 1.283	- / -	2,812 / 10.722	
<i>Subtotal: Recurring</i>	<i>- / 37.081</i>	<i>- / 5.358</i>	<i>- / 7.300</i>	<i>- / 6.800</i>	<i>- / -</i>	<i>- / 6.800</i>	<i>- / 6.200</i>	<i>- / 5.651</i>	<i>- / 10.000</i>	<i>- / 8.806</i>	<i>- / -</i>	<i>- / 87.196</i>	
<i>Subtotal: Engine Modification Kits</i>	<i>- / 37.081</i>	<i>- / 5.358</i>	<i>- / 7.300</i>	<i>- / 6.800</i>	<i>- / -</i>	<i>- / 6.800</i>	<i>- / 6.200</i>	<i>- / 5.651</i>	<i>- / 10.000</i>	<i>- / 8.806</i>	<i>- / -</i>	<i>- / 87.196</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 37.081</i>	<i>- / 5.358</i>	<i>- / 7.300</i>	<i>- / 6.800</i>	<i>- / -</i>	<i>- / 6.800</i>	<i>- / 6.200</i>	<i>- / 5.651</i>	<i>- / 10.000</i>	<i>- / 8.806</i>	<i>- / -</i>	<i>- / 87.196</i>	
Support (All Modification Items)													
PMA - Other Gov't Costs	- / 1.560	- / -	- / 1.300	- / 0.900	- / -	- / 0.900	- / 0.800	- / 0.700	- / 1.300	- / 1.200	- / -	- / 7.760	
<i>Subtotal: Support</i>	<i>- / 1.560</i>	<i>- / -</i>	<i>- / 1.300</i>	<i>- / 0.900</i>	<i>- / -</i>	<i>- / 0.900</i>	<i>- / 0.800</i>	<i>- / 0.700</i>	<i>- / 1.300</i>	<i>- / 1.200</i>	<i>- / -</i>	<i>- / 7.760</i>	
Installation													
<i>Modification Item 1 of 1: Engine Modification Kits</i>	1,739 / 4.536	1,276 / 5.358	504 / 7.300	2,195 / 6.800	- / -	2,195 / 6.800	1,655 / 6.200	1,502 / 5.651	1,360 / 10.000	1,419 / 8.851	1,221 / -	12,871 / 54.696	
<i>Subtotal: Installation</i>	<i>1,739 / 4.536</i>	<i>1,276 / 5.358</i>	<i>504 / 7.300</i>	<i>2,195 / 6.800</i>	<i>- / -</i>	<i>2,195 / 6.800</i>	<i>1,655 / 6.200</i>	<i>1,502 / 5.651</i>	<i>1,360 / 10.000</i>	<i>1,419 / 8.851</i>	<i>1,221 / -</i>	<i>12,871 / 54.696</i>	
Total													
Total Cost (Procurement + Support + Installation)	43.177	10.716	15.900	14.500	-	14.500	13.200	12.002	21.300	18.857	-	149.652	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 2 / F119 Engine Modifications

Modification Item 1 of 1: Engine Modification Kits

Manufacturer Information

Manufacturer Name: Pratt & Whitney	Manufacturer Location: East Hartford/Tinker AFB
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	234 / 0.964	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	234 / 0.964
FY 2015	- / -	- / -	275 / 1.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	275 / 1.314
FY 2016	- / -	- / -	- / -	243 / 1.020	- / -	243 / 1.020	- / -	- / -	- / -	- / -	- / -	243 / 1.020
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	183 / 0.930	- / -	- / -	- / -	- / -	183 / 0.930
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	167 / 0.848	- / -	- / -	- / -	167 / 0.848
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	151 / 1.500	- / -	- / -	151 / 1.500
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	158 / 1.328	- / -	158 / 1.328
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	136 / -	136 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	234 / 0.964	275 / 1.314	243 / 1.020	- / -	243 / 1.020	183 / 0.930	167 / 0.848	151 / 1.500	158 / 1.328	136 / -	1,547 / 7.904

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	58	58	59	59	68	69	69	69	60	61	61	61	45	46	46	46	41	42	42	42	37	38	38	38	39	39	40	40	136	1,547
Out	0	58	58	59	59	68	69	69	69	60	61	61	61	45	46	46	46	41	42	42	42	37	38	38	38	39	39	40	40	136	1,547

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1,739 / 4.536	1,042 / 4.394	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,781 / 8.930
FY 2015	- / -	- / -	229 / 5.986	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	229 / 5.986

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 2 / F119 Engine Modifications

Modification Item 1 of 1: Engine Modification Kits

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	1,952 / 5.780	- / -	1,952 / 5.780	- / -	- / -	- / -	- / -	- / -	1,952 / 5.780
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1,472 / 5.270	- / -	- / -	- / -	- / -	1,472 / 5.270
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,335 / 4.803	- / -	- / -	- / -	1,335 / 4.803
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,209 / 8.500	- / -	- / -	1,209 / 8.500
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,261 / 7.523	- / -	1,261 / 7.523
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,085 / -	1,085 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,739 / 4.536	1,042 / 4.394	229 / 5.986	1,952 / 5.780	- / -	1,952 / 5.780	1,472 / 5.270	1,335 / 4.803	1,209 / 8.500	1,261 / 7.523	1,085 / -	11,324 / 46.792

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1,739	260	260	261	261	57	57	57	58	488	488	488	488	368	368	368	368	333	334	334	334	302	302	302	303	315	315	315	316	1,085	11,324
Out	1,739	260	260	261	261	57	57	57	58	488	488	488	488	368	368	368	368	333	334	334	334	302	302	302	303	315	315	315	316	1,085	11,324

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F02200 / F-22A				Modification Number / Title: 3 / Structures Retrofit Plan				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	214.463	24.543	13.332	14.598	-	14.598	14.167	5.358	5.222	-	-	291.683
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	214.463	24.543	13.332	14.598	-	14.598	14.167	5.358	5.222	-	-	291.683
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	214.463	24.543	13.332	14.598	-	14.598	14.167	5.358	5.222	-	-	291.683

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

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

Description:

The Structures Retrofit Program (SRP) is designed to retrofit F-22 aircraft with the structural improvements required to reach full service life. SRP I completed in FY2014 and brought the F-22's service life to 2,000 hours. The current program (SRP II) is designed to extend the entire fleet to 8,000 hours per aircraft. The number of aircraft in this exhibit (166) is not reflective of the total fleet due to SRP kits being installed while the last two lots of aircraft were in production. Additionally, kit buys and their corresponding installs will not always match by fiscal year due to schedule changes in depot work flow. Kit installation quantities and costs are shown for modifications performed at the depot level only. SRP II includes Mission Support Requirements.

Milestone/Development Status

Development complete. RDT&E funding identified is for test aircraft retrofits.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	24.543	13.332	13.275	-	13.275	8.195	5.358	3.992	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.323	-	1.323	5.972	-	1.230	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	24.543	13.332	14.598	-	14.598	14.167	5.358	5.222	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F02200 / F-22A					Modification Number / Title: 3 / Structures Retrofit Plan			
Models of Systems Affected: F-22				Modification Type: Service Life Extension				Related RDT&E PEs: 0207138F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Structure Retrofit Plan</i>													
A Kits													
Recurring													
Structure Retrofit Plan:INSTALL KITS Group A (Active)	91 / 48.173	21 / 4.168	21 / 3.375	6 / 1.755	- / -	6 / 1.755	- / -	2 / 1.380	- / -	- / -	- / -	141 / 58.851	
Structure Retrofit Plan:INSTALL KITS Group A (Guard)	5 / 1.045	- / -	- / -	7 / 1.323	- / -	7 / 1.323	13 / 1.556	- / -	- / -	- / -	- / -	25 / 3.924	
<i>Subtotal: Recurring</i>	- / 49.218	- / 4.168	- / 3.375	- / 3.078	- / -	- / 3.078	- / 1.556	- / 1.380	- / -	- / -	- / -	- / 62.775	
<i>Subtotal: Structure Retrofit Plan</i>	- / 49.218	- / 4.168	- / 3.375	- / 3.078	- / -	- / 3.078	- / 1.556	- / 1.380	- / -	- / -	- / -	- / 62.775	
<i>Subtotal: Procurement, All Modification Items</i>	- / 49.218	- / 4.168	- / 3.375	- / 3.078	- / -	- / 3.078	- / 1.556	- / 1.380	- / -	- / -	- / -	- / 62.775	
Support (All Modification Items)													
PMA - Other Gov't Costs	- / 2.217	- / -	- / 0.832	- / 1.098	- / -	- / 1.098	- / 0.867	- / 0.264	- / 0.300	- / -	- / -	- / 5.578	
<i>Subtotal: Support</i>	- / 2.217	- / -	- / 0.832	- / 1.098	- / -	- / 1.098	- / 0.867	- / 0.264	- / 0.300	- / -	- / -	- / 5.578	
Installation													
<i>Modification Item 1 of 1: Structure Retrofit Plan</i>	64 / 163.028	21 / 20.375	16 / 9.125	16 / 10.422	- / -	16 / 10.422	20 / 11.744	10 / 3.714	8 / 4.922	11 / -	- / -	166 / 223.330	
<i>Subtotal: Installation</i>	64 / 163.028	21 / 20.375	16 / 9.125	16 / 10.422	- / -	16 / 10.422	20 / 11.744	10 / 3.714	8 / 4.922	11 / -	- / -	166 / 223.330	
Total													
Total Cost (Procurement + Support + Installation)	214.463	24.543	13.332	14.598	-	14.598	14.167	5.358	5.222	-	-	291.683	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 3 / Structures Retrofit Plan

Modification Item 1 of 1: Structure Retrofit Plan

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Palmdale/Hill AFB
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019		
Delivery Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019		

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	64 / 163.028	21 / 20.375	11 / 6.273	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	96 / 189.676
FY 2015	- / -	- / -	5 / 2.852	16 / 10.422	- / -	16 / 10.422	- / -	- / -	- / -	- / -	- / -	21 / 13.274
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	13 / 7.328	8 / 2.971	- / -	- / -	- / -	21 / 10.299
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	7 / 4.416	2 / 0.743	4 / 2.461	- / -	- / -	13 / 7.620
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.230	11 / -	- / -	13 / 1.230
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.231	- / -	- / -	2 / 1.231
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	64 / 163.028	21 / 20.375	16 / 9.125	16 / 10.422	- / -	16 / 10.422	20 / 11.744	10 / 3.714	8 / 4.922	11 / -	- / -	166 / 223.330

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	64	5	5	5	6	4	4	4	4	4	4	4	4	5	5	5	5	2	2	3	3	2	2	2	2	2	3	3	3	-	166
Out	61	3	5	5	5	4	4	4	3	7	3	3	3	2	5	5	5	3	4	4	4	3	4	4	4	3	3	3	-	-	166

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

P-1 Line Item Number / Title:
F03500 / F-35 Modifications

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207142F **Other Related Program Elements:** 0604800F

Line Item MDAP/MAIS Code: 198 **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	209.241	187.646	70.167	175.811	-	175.811	385.931	237.349	232.017	237.273	-	1,735.435
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	209.241	187.646	70.167	175.811	-	175.811	385.931	237.349	232.017	237.273	-	1,735.435
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	209.241	187.646	70.167	175.811	-	175.811	385.931	237.349	232.017	237.273	-	1,735.435

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

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

Description:

The F-35 Joint Strike Fighter (JSF) Program will develop and deploy a family of highly common, affordable, next generation, stealthy, multi-role strike fighters that meet the needs of multiple services and countries. The United States Air Force F-35A Conventional Take Off and Landing (CTOL) correction of deficiencies effort provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field and depot retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate concurrency changes to sustain and improve F-35A system operations. Concurrency changes are implemented to coincide with resources and aircraft availability. Block upgrades provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the F-35A platform. This modification program will bring early production aircraft and integrated systems to a common fleet configuration as fielded capabilities evolve over the course of the F-35 program.

The modification funding requested in the 2017 President's Budget enables several distinct efforts pertaining to the Air Force F-35A aircraft to include post aircraft delivery concurrency retrofits, to correct deficiencies, the block upgrade of hardware and software to a Block 3i configuration, and the block upgrade of software components to a full Block 3F configuration. Increase between FY16 and FY17 resulted from a re-phase of FY16 modification funding to better align with execution of requirements. Overall requirements between FY16 and FY17 have been reduced from the FY16 President's Budget to the FY17 President's Budget position.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

The overlap of development with production and operations results in the need to manage a concurrency program and conduct retrofits on jets with life-limited parts or impacts to capabilities. For the F-35 program, the emergence of new concurrency issues is expected to phase out with the completion of System Development and Demonstration (SDD) in the FY18 timeframe. Block 3i Fleet Release occurred 4th Qtr FY15, Block 3F Fleet Release is planned by 3rd Qtr FY17 and Block 4 Developmental Test & Engineering (DT&E) (funded through the Follow On Development Project Unit) Fleet Release is planned by 2nd Qtr 2022.

The FY2017 funding request was reduced by \$119.859 million to account for the availability of prior year execution balances.

Funding for this exhibit contained in PE 0207142F.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

P-1 Line Item Number / Title:
F03500 / F-35 Modifications

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207142F **Other Related Program Elements:** 0604800F

Line Item MDAP/MAIS Code: 198 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	F3512 / Block 2B OT Upgrade (Capability Improvement)			- / 11.093	- / 0.861	- / -	- / -	- / -	- / -
P-40a***	F3514 / Block 3F LRIP 2-5 Upgrade (Capability Improvement)			- / -	- / -	- / 6.790	- / 0.006	- / -	- / 0.006
P-40a***	F3515 / Block 3F LRIP 6-8 Upgrade (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	F3517 / Correction of Deficiencies (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / Block 3i LRIP 2-5 Upgrade (Capability Improvement)			- / 63.420	- / 81.695	- / 44.797	- / 11.484	- / -	- / 11.484
P-3a	2 / Concurrency (Other)			- / 134.728	- / 105.090	- / 18.580	- / 164.320	- / -	- / 164.320
P-40	Total Gross/Weapon System Cost			- / 209.241	- / 187.646	- / 70.167	- / 175.811	- / -	- / 175.811

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	F3512 / Block 2B OT Upgrade (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 11.954
P-40a***	F3514 / Block 3F LRIP 2-5 Upgrade (Capability Improvement)			- / 0.540	- / 2.005	- / 0.250	- / -	- / -	- / 9.591
P-40a***	F3515 / Block 3F LRIP 6-8 Upgrade (Capability Improvement)			- / 0.056	- / -	- / 2.800	- / -	- / -	- / 2.856
P-40a***	F3517 / Correction of Deficiencies (Reliability & Maintainability)			- / -	- / -	- / 127.221	- / 134.544	- / -	- / 261.765
P-3a	1 / Block 3i LRIP 2-5 Upgrade (Capability Improvement)			- / 5.098	- / 2.117	- / 8.171	- / -	- / -	- / 216.782
P-3a	2 / Concurrency (Other)			- / 380.237	- / 233.227	- / 93.575	- / 102.729	- / -	- / 1,232.486
P-40	Total Gross/Weapon System Cost			- / 385.931	- / 237.349	- / 232.017	- / 237.273	- / -	- / 1,735.435

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F03500 / F-35 Modifications						Modification Number / Title: 1 / Block 3i LRIP 2-5 Upgrade		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	63.420	81.695	44.797	11.484	-	11.484	5.098	2.117	8.171	-	-	216.782
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	63.420	81.695	44.797	11.484	-	11.484	5.098	2.117	8.171	-	-	216.782
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	63.420	81.695	44.797	11.484	-	11.484	5.098	2.117	8.171	-	-	216.782

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

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

Description:

The block upgrade program retrofits United States Air Force F-35A aircraft and integrated systems procured under the LRIP contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

This Modification Number (MN), effort MN-F3513 focuses on upgrading Blocks 1B, 2A, and 2B aircraft from LRIPs 2-5 to a Block 3i configuration. Block 3i is a stepping stone to the Block 3F configuration. It includes the procurement of hardware for the current Block 3i configuration. The parts include new radar modules, new Integrated Core Processor (ICP) modules and rack, and new Electronic Warfare (EW) modules. The Gen III Helmet will also be introduced as part of the Block 3i upgrade. This effort includes tooling and test equipment for Military Service Depots to support the execution of the Block Upgrade program.

Milestone/Development Status

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

Block 3i Fleet Release occurred 4th Qtr FY15

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 1 / Block 3i LRIP 2-5 Upgrade			
Models of Systems Affected: F-35A				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Block 3i													
B Kits													
Recurring													
Block 3i:EQUIPMENT Group B (Active)	11 / 43.861	13 / 61.143	9 / 44.797	13 / 8.608	- / -	13 / 8.608	- / -	- / -	- / -	- / -	- / -	46 / 158.409	
<i>Subtotal: Recurring</i>	- / 43.861	- / 61.143	- / 44.797	- / 8.608	- / -	- / 8.608	- / -	- / -	- / -	- / -	- / -	- / 158.409	
<i>Subtotal: Block 3i</i>	- / 43.861	- / 61.143	- / 44.797	- / 8.608	- / -	- / 8.608	- / -	- / -	- / -	- / -	- / -	- / 158.409	
<i>Subtotal: Procurement, All Modification Items</i>	- / 43.861	- / 61.143	- / 44.797	- / 8.608	- / -	- / 8.608	- / -	- / -	- / -	- / -	- / -	- / 158.409	
Support (All Modification Items)													
SIM/TRAINER	0 / 6.396	- / 6.588	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.984	
Mod of Spares	- / 13.163	- / 13.964	- / -	- / 12.876	- / -	- / 12.876	- / -	- / -	- / -	- / -	- / -	- / 30.003	
<i>Subtotal: Support</i>	0 / 19.559	- / 20.552	- / -	- / 12.876	- / -	- / 12.876	- / -	- / -	- / -	- / -	- / -	- / 42.987	
Installation													
<i>Modification Item 1 of 1:</i> Block 3i	- / -	- / -	- / -	- / -	- / -	- / -	24 / 5.098	9 / 2.117	13 / 8.171	- / -	- / -	46 / 15.386	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	24 / 5.098	9 / 2.117	13 / 8.171	- / -	- / -	46 / 15.386	
Total													
Total Cost (Procurement + Support + Installation)	63.420	81.695	44.797	11.484	-	11.484	5.098	2.117	8.171	-	-	216.782	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 1 / Block 3i LRIP 2-5 Upgrade

Modification Item 1 of 1: Block 3i

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 27

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Aug 2015	Aug 2016	Aug 2017				
Delivery Dates	Nov 2017	Nov 2018	Nov 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	11 / 2.337	- / -	- / -	- / -	- / -	11 / 2.337
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	13 / 2.761	- / -	- / -	- / -	- / -	13 / 2.761
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.117	- / -	- / -	- / -	9 / 2.117
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 8.171	- / -	- / -	13 / 8.171
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	24 / 5.098	9 / 2.117	13 / 8.171	- / -	- / -	46 / 15.386

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	6	5	7	6	3	2	2	2	4	3	3	3	-	-	-	-	-	46
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	6	5	7	6	3	2	2	2	4	3	3	3	-	-	-	-	-	46

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Exhibit P-3a, Individual Modification: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F03500 / F-35 Modifications				Modification Number / Title: 2 / Concurrency				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	134.728	105.090	18.580	164.320	-	164.320	380.237	233.227	93.575	102.729	-	1,232.486
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	134.728	105.090	18.580	164.320	-	164.320	380.237	233.227	93.575	102.729	-	1,232.486
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	134.728	105.090	18.580	164.320	-	164.320	380.237	233.227	93.575	102.729	-	1,232.486

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

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

Description:

This effort (MN-F3516) funds retrofits due to concurrency changes to correct deficiencies discovered after DD-250 of the last aircraft in a given LRIP lot. This includes modifications required to extend aircraft service life currently limited by low-life parts, and relieve capability limitations driven by concurrency of production with development.

The concurrency funding line will procure the highest priority modifications from the Tri-Service Modification Prioritization List, as soon as they become supportable from an engineering, production, and installation standpoint. The list is vetted by the Services and Partners every 6 months to ensure the list accurately reflects existing requirements as well as emerging issues. Per-kit costs will vary for each modification being implemented, and in some cases will also vary for aircraft from different LRIP lots to implement an individual modification. For FY17, the highest priority modifications will directly support USAF IOC, Block 3i, and tactics development.

Total cost reflects procurement and installation costs in each fiscal year. Support costs include overall modification program planning, scheduling, and management; and support of Military and Service Depots and Depot Field Teams for incorporation of modifications.

The following modifications will be the highest priorities for accomplishment throughout the F-35A fleet using funds from this Budget Activity. FY17 concurrency funds will also be used to implement modifications across the rest of the USAF F-35A fleet. Increase between FY16 and FY17 resulted from a re-phase of FY16 modification funding to better align with execution of requirements. Overall requirements between FY16 and FY17 have been reduced from the FY16 President's Budget to the FY17 President's Budget position.

TI_Number Mod CR Title/Description

- TI-0000-0015 CR-018836 Stress Failure of Hydraulic Tube Support Bracket
- TI-0000-0031 CR-018835 Nose Wheel Steering (NWS) Motor Qualification Failure
- TI-0000-0045 CR-019003 CTOL/STOVL MLG SDD & LRIP Part Number Rolls
- TI-0000-0049 CR-019065 Ordnance Quick Latch System (OQLS) FS 424 Latch Corrosion Control
- TI-0000-0055 CR-019070 IPP Bay Vent Fan Electrical Bond
- TI-0000-0056 CR-019004 IPP Controller Part Number Roll
- TI-0000-0058 MVR-0X0080 Back-Up Radio Tray Clearance
- TI-0000-0063 CR-018838 Bootstrap Accumulator Redesign
- TI-0000-0064 CR-022872 Counter Measures Door Control Valve Life Limitation on AF:6
- TI-0000-0098 CR-022695 CTOL Nose Landing Gear
- TI-0000-0117 CR-019107 CTOL Trestle Inst Cotter Pin Alignment and Joint Clamp up (PR-45840)
- TI-0000-0119 MVR-0X0620 Production Ejection Seat (LRIP I & II) MWARS Replacement w Neg G Strap & New Cartridge Set Part Numbers

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 2 / Concurrency
TI-0000-0122 MVR-0X0019 28V Battery and Charger Changes TI-0000-0124 CR-019533 Controller, Motor Pump Qual Failure TI-0000-0129 CR-021322 MLG Control Valve Part Number Roll TI-0000-0130 CR-020289 Emergency Control Valve Qual Failure TI-0000-0132 CR-020907 Valve, Mechanical Sequence - T Qual Failure TI-0000-0133 CR-022196 Filter Module, Pressure Qual Failure TI-0000-0135 CR-021459 Engine Driven Pump Life Limit TI-0000-0137 CR-020793 Pump, Motor GND Maint Qual Failure TI-0000-0138 CR-018564 Wingtip Light Improvement For FAA Compliance TI-0000-0145 CR-019110 2AF:0006-0007 & AF:0017-0020.Record Control Panel(RCP)HARNESS RT ERR TI-0000-0147 CR-019258 PTMS PAO Three-Port Valve Part Number Roll TI-0000-0158 MVR-0X0026/CR-022877 WBDD Flexible Cable Re-design TI-0000-0161 CR-019418 EDU #1 & #2 Signal Deletion TI-0000-0165 CR-019135 R3 Float Valve with Mechanical Thread Locking TI-0000-0191 MVR-0X0178 270V BCCU TI-0000-0192 Gen II -10 Helmet Mounted Display Variance TI-0000-0193 CR-019291 EW Gain State Control Logic Error TI-0000-0208 CR-020003 CTOL Arresting Gear Push Rods - Incorrect Heat Treat for AI 2024-T4 TI-0000-0231 CR-019340 PTMS EHA Cooling Orifices - CTOL & STOVL TI-0000-0236 CR-019412 FPS Fire and Bleed Leak Controller (FBLC) Redesign TI-0000-0245 MVR-0X0067 Update to Antenna Switch Unit for Cosite Function & Qual Test Fails TI-0000-0260 CR-016633 Canopy Actuation System TI-0000-0263 CR-017121 Power Panel 1, 2, 3 TI-0000-0264 CR-019516 PTMS Controller Humidity, Temp, and Durability Qual Test Failures TI-0000-0281 CR-020226 Hoist Point Cover FIP Proposal TI-0000-0282 CR-025346 Update to Audio Control Electronics (ACE) Unit for Qual Test Fails TI-0000-0286 MVR-0X0136 Backup Radio (BuR) Indirect Lightning Qualification Test Failure TI-0000-0316 MVR-0X0158 CTOL & CV FS 496 Bulkhead Trunnion TI-0000-0329 CR-021982 Refueling Bay and Nozzle Clash LRIP 1-3 Modification TI-0000-0331 MVR-0X0025 WBDDS RGAs Limited Life - Change Request Approval TI-0000-0336 CR-024982 Panoramic Cockpit Display (PCD) - DU TI-0000-0339 HMDS LRIP Subsystem Variance - UUT Outages TI-0000-0343 CR-024982 Panoramic Cockpit Display (PCD) Major Variances - EU TI-0000-0344 MVR-0X0117 HMDS LRIP Subsystem Variance - Fixed Camera TI-0000-0358 CR-019771 Production Ejection Seat (-0021) TI-0000-0361 CR-023382 Vertical Tail 575 Fitting TI-0000-0363 CR-020636 TRS Component Changes from Qual Test Failures TI-0000-0367 MVR-0X0120/MVR-0X0121 Engine Trailer Adapter Kit - FS556 Interface, J27006/J27007 TI-0000-0386 CR-025191 Fuel System - Signal Amplifier TI-0000-0387 CR-016910 Fuel System - Dive Rate Performance TI-0000-0395 MVR-0X0591 LEF Inbd Blade Seal Mousehole and CTOL LEF Lwr Inbd Blade Seal Fails TI-0000-0398 CR-019930 Arresting Hook Aft Door Spring Damper Part Number Roll TI-0000-0405 CR-023769 EDU Random Vibration Fails Elect Dist Unit Full Qual TI-0000-0412 CR-020680 Wing Lighting Controller - Salt Fog Failure TI-0000-0423 CR-016270 Engine Interchangeability Bleed Air System Ducting Design TI-0000-0424 CR-020066 Firewall Shutoff Valve Part Number Roll		

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 2 / Concurrency
<p>TI-0000-0425 MVR-0X0142 CCDD LRIP1-016 No Intercom Transmit During Air Refueling</p> <p>TI-0000-0432 MVR-0X0145 Short Life - CTOL Wing Forward Root Rib</p> <p>TI-0000-0441 MVR-0X0148 CTOL FS 594 Centre Arch Low Life</p> <p>TI-0000-0448 MVR-0X0053 Add -0007 ASSCA-0006 ATQA To Aircraft TVE</p> <p>TI-0000-0456 MVR-0X0156 Bulkhead - FS 450</p> <p>TI-0000-0457 MVR-0X0157 Bulkhead - FS 472</p> <p>TI-0000-0458 MVR-0X0159 Bulkhead - FS 518 Upper</p> <p>TI-0000-0460 MVR-0X0161 Bulkhead - FS 556</p> <p>TI-0000-0463 CR-017913 Support - Fairing, Mid, LH/RH</p> <p>TI-0000-0467 MVR-0X0168 Fuel Floor - FS496-556, LH</p> <p>TI-0000-0468 MVR-0X0169 Fuel Floor - FS496-556, RH</p> <p>TI-0000-0469 CR-022737 Life Suppt System (OBOGS, Steel BOS, SIC, SPA, PIC & Composite BOS)</p> <p>TI-0000-0477 CR-020097 CTOL EHAS Panels - Incorrect Fastener Grips and De-torque Issue</p> <p>TI-0000-0480 MVR-0X0007 ICC Qual Issues</p> <p>TI-0000-0495 CR-024922 OBIGGS & Pressure/Vent Changes for Lightning Protection</p> <p>TI-0000-0538 CR-020593 EHA Flaperon Support Equipment Locations</p> <p>TI-0000-0539 MVR-0X0205 Cracking of Bifurcation Seam Treatment</p> <p>TI-0000-0574 CR-023121 Electronics Units Mods for EMI, Lightning and Qual Compliance.</p> <p>TI-0000-0575 CR-020289 ULF & 3BSD Emergency Control Valve</p> <p>TI-0000-0576 CR-020289 Refuel Probe/Tailhook Emergency Control Valve</p> <p>TI-0000-0578 CR-020289 Aux Inlet Door Emergency Control Valve</p> <p>TI-0000-0583 MVR-0X0051 CTOL STOVL Rudder EHA Design Change</p> <p>TI-0000-0602 CR-020398 Brake Control Unit (BCU) Wet Runway Update & Op of a Wet Runway</p> <p>TI-0000-0607 CR-021434 Limited Life CTOL STA 3/9 Aft Rib</p> <p>TI-0000-0608 Fwd Upper Engine Mount (CTOL)</p> <p>TI-0000-0626 SMSFRIU SDD/LRIP Arm Disable Input</p> <p>TI-0000-0631 CR-021180 Countermeasures Doors & NNMSB/WSESRB Concerns</p> <p>TI-0000-0654 CR-020726 IDMS Connector Ref Des Swap</p> <p>TI-0000-0655 MVR-0X0014 EO DAS Center Fuselage Vibration Testing</p> <p>TI-0000-0671 MVR-0X0208 IFF Transponder Operation During Emergency Conditions</p> <p>TI-0000-0673 CR-020743 Ordnance Quick Latch System (OQLS) - Clip Lock</p> <p>TI-0000-0683 CR-017534 CR-017534 Rev- HT Bearing Issues</p> <p>TI-0000-0707 MVR-0X0062 Air Data System Design Changes For -0004 Configuration</p> <p>TI-0000-0709 MVR-0X0084 HT EHA Block Change</p> <p>TI-0000-0723 MVR-0X0243 EOTS PBS Startup Timeline</p> <p>TI-0000-0737 CR-024922 IPP Purge Issue Due to Low Fuel Shutdown</p> <p>TI-0000-0738 Modified Fuel Dump Valve (T28a)</p> <p>TI-0000-0771 MVR-0X0250 Install Battery into CNI Rack 3A and 3B</p> <p>TI-0000-0772 PTMS Turbomachine/ACCM Cable Interface Changes</p> <p>TI-0000-0802 CR-022695 CTOL Main Landing Gear</p> <p>TI-0000-0808 CR-021259 Weapons Bay Door Uplock Sealing</p> <p>TI-0000-0833 CR-021053 Short Shank Condition on Engine Inspection Panels</p> <p>TI-0000-0854 CR-021107 DMCH MPEG VHDL Firmware Version</p> <p>TI-0000-0866 CR-021262/ CR-022737 Production Ejection Seat (-0023)</p> <p>TI-0000-0884 CR-024000 AESG - Material & Workmanship</p> <p>TI-0000-0895 CR-021557 Arm Disable Current Leakage Path Correction</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 2 / Concurrency
<p>TI-0000-0898 MVR-0X0363 Electronic Warfare Band 3/4 Antenna and Edge Performance Issues</p> <p>TI-0000-0910 CR-021395 PCD EU Cooling Rework</p> <p>TI-0000-0913 CR-025087 LEFAS PDU Resolver and Rotor Shaft Seal Life</p> <p>TI-0000-0945 CTOL Audio Control Electronics (ACE) In-Flight Refueling</p> <p>TI-0000-0992 CR-013553 Outboard Vertical Tail Seal Redesign</p> <p>TI-0000-0998 CR-021916 CTOL and CV Refuel System Mod</p> <p>TI-0000-1000 CR-022481 Inboard Weapon Bay Door Flipper Door Design Change</p> <p>TI-0000-1011 MVR-0X0367 L-Band Pre-Selector (LBPS) Propagation Delay Calibration for Mode 5</p> <p>TI-0000-1048 CR-024982 Panoramic Cockpit Display-Electronic Unit (PCD-EU)</p> <p>TI-0000-1056 CR-016660 RADAR 1A & 1B Racks -0002 Cut-in</p> <p>TI-0000-1060 CR-022121 Final Finishes</p> <p>TI-0000-1078 CR-025006 Nacelle Insulation</p> <p>TI-0000-1082 MVR-0X0373 Power Panel 1 & 2 Random Vibration Failures - Second Failure</p> <p>TI-0000-1092 CR-022666 Landing Taxi Light Redesign</p> <p>TI-0000-1099 CR-022841 ATQA Mounting Bolt Interface</p> <p>TI-0000-1102 CR-022481 BH-1 Weapons Bay Doors - AMRAAM Cradle Found Fatigue Cracks in Cradle Lugs @ 11,353 Hours</p> <p>TI-0000-1113 CR-024000 AESG Power Connector Rating (Generator)</p> <p>TI-0000-1161 CR-022656 STOVL Aft MLG Door Cracking</p> <p>TI-0000-1192 CR-026590 Short Life - CTOL Thrust Mount Shear Web / 2WSH43777-0001 and 2WSH43778-0001 Do Not Meet Service Life Requirement</p> <p>TI-0000-1198 CR-026143 HT Heating</p> <p>TI-0000-1255 CR-023093 Fibre Channel Switch Design Issues-0004</p> <p>TI-0000-1324 CR-022656 Structural Cracking of Aft MLG Door Drive Link U-Joint</p> <p>TI-0000-1362 Production Incorporation of Improved ANR into VSI HMD</p> <p>TI-0000-1372 EW Block-2 DRFM Module Firmware Issue</p> <p>TI-0000-1396 CR-023112 HTCA with End Gland Material Issue</p> <p>TI-0000-1408 CCDD LRIP4/LRIP 5-016 EW: AEL, Aft Sector</p> <p>TI-0000-1472 CR-023094 Gun Port Door Threads in Bearing Issue</p> <p>TI-0000-1483 MVR-0X0373 Power Panel 3 Random Vibration Failures - Second Failure</p> <p>TI-0000-1485 CR-023282 F1 Feed Tank Gasket Spill Out/Removing F1 Feed Tank Cover Gasket And Reworking To Production Fay Seal Configuration</p> <p>TI-0000-1494 CR-023133 PTMS Turbomachine Configuration to Correct Qualification Failures</p> <p>TI-0000-1515 CR-024000 ESG Service Life (Generator) -0003</p> <p>TI-0000-1518 CR-024193 Incorrect PAO Orifice In P5 Gp A Dummy LRU; Incorrect PAO Cooling Orifices In Center Fuselage Cold Liquid Loop</p> <p>TI-0000-1549 CR-023540 Firmware Update for AMS Cartridge Reset SPAR</p> <p>TI-0000-1551 CR-023874 28V Battery Full Qualification</p> <p>TI-0000-1552 CR-023874 28V BCCU Lightning Compliance - 28V Battery Charger</p> <p>TI-0000-1589 CR-023300 Hydraulic System Single Point Failure</p> <p>TI-0000-1650 CR-022737 MWARS for Production Seat (LRIP 1-6)</p> <p>TI-0000-1652 CR-023599 Rudder Slider Hinge Wear</p> <p>TI-0000-1653 CR-026539 Ground Maint Valve Deletion to Prevent PAO in Cockpit (DR 1-4815699)</p> <p>TI-0000-1706 CR-024068 Insert updated DMCH LRIP6 w Night Vision Camera Image Qual Improve</p> <p>TI-0000-1761 HT EHA Solenoid Valve (SOV) Qual Test Failure</p> <p>TI-0000-1783 CR-025111 Canopy Boot Cracking</p> <p>TI-0000-1786 CR-023729 AJ-1 Test Incident - Cracked stiffener on the FS402 frame (TIN-075)</p> <p>TI-0000-2450 CR-023901 Bleed Air Sensor Fitting Galling</p> <p>TI-0000-2467 CR-025204 CTOL FS 503 Frame Limited Life</p> <p>TI-0000-2468 CR-025204 CTOL IPP Shear Web Limited Life Discovery</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 2 / Concurrency
<p>TI-0000-2506 MVR-0X0551 Gun Port Blast Mislocation TI-0000-2528 MVR-0X0607 270V Battery Gunfire Vibration Failure TI-0000-2551 CR-024922 L-Band Power Amplifier (LBPA) Update for LINK-16 TI-0000-2580 MVR-0X0639 AESG -0004 Qual Failure TI-0000-2624 CR-025684 Lower Horizontal Tail Bullnose Panels Experiencing Coating Damage (panels 4134/4133) TI-0000-2633 CR-024265 Flaperon Blade Seal Buckling TI-0000-2659 CR-026105 Cockpit Green Indicator Bright/Dim Anomaly TI-0000-2672 Radome Shroud Gapping / Trimming TI-0000-2674 CR-024794 Cracking of Bifurcation Seam Treatment TI-0000-2690 LAU-147 and BRU Vent Value Under Full Pressure TI-0000-2699 CR-023093 Fibre Channel Switch Design Issues -0005 TI-0000-2714 CR-022737 -0025 Ejection Seat Qual Issues TI-0000-2725 CR-024162 Vehicle Mgmt Computer (VMC) Elect Connect Issue on CTOL and STOVL AC TI-0000-2784 CR-025512 CNI 3A & 3B Integrated Backplane Assembly (IBA) EMI Upgrades TI-0000-2786 CR-023093 Upgrade ICP Fibre Channel Switch Module to Address MS Stab Issues TI-0000-2800 MVR-0X0590 CNI TFR Module Humidity Qualification Test Failure TI-0000-2818 CR-025637 EOTS LoS Pointing Angle TI-0000-2833 MVR-0X0587 Gun System Muzzle and Purge Door Time Out TI-0000-2865 TR2 - SP-SPIO Issue TI-0000-2891 CR-022105 OBIGGS Wash Pressure Buildup in Refuel Manifold TI-0000-2909 CR-025167 IPP Bay High Flow Air Duct Separation TI-0000-2921 MVR-0X0586 Gun Vent Door Unpainted Brackets TI-0000-3041 CR-025499 Nacelle Ventilation Intake (NVI) Failure Investigation TI-0000-3054 CR-025562 Ammunition Handling System (AHS) Carrier Belt Rollers TI-0000-3099 MVR-0X0624 Gun Fwd Mount Muzzle Sleeve Nut Plate TI-0000-3100 MVR-0X0627 Horizontal Tail Bearing Specification Change TI-0000-3194 MVR-0X0638 Landing Aid Down Converter (LADC) Qualification Test Failure TI-0000-3280 MVR-0X0649 F-35A FS 383 Frame Short Life TI-0000-3281 CR-026430 F-35A FS 402 Frame Short Life TI-0000-3284 MVR-0X0654 F-35A Center Fuselage F2 Floor Durability Life TI-0000-3285 MVR-0X0655 Egress System Safe Escape Intro for -6 Seat TI-0000-3386 MVR-0X0661 MLG Door Crank Arm Corrosion F35-A/B TI-0000-3597 F-35 Fuel Tank Overpressure TI-7777-0003 Block 1.0-v01.702 Formal Systems Build (Rev B - MVI R10.1.3 software. Rev C captures ALIS 1.0.2E.1 software mod) (Rev D addresses AV software mod .702 for CTOL and new MVI R11.x.2.2) TI-7777-0004 MLG Strut Redesign TI-7777-0007 OBOGS Plenum HEPA Filter Provisioning TI-7777-0010 CR-016660 Radar Harness Redesign TI-7777-0024 Gun Gas Purge & Gun Port Door Actuators TI-7777-0031 Brake Control Electronic Unit Update TI-7777-0042 MVR-0X0074 Return Fuel Cooler HX Coating TI-7777-0057 Nacelle Fan - Full Qualified Configuration TI-7777-0077 CR-016660 Small Diameter Bomb (SDB) Rack Strut TI-7777-0081 270V BCCU Change TI-7777-0083 CTOL/STOVL EHAS/LEFAS -0011 EU & Rack Config Update TI-7777-0084 MVR-0X0003 ACCM Filter Pin</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 2 / Concurrency
TI-7777-0085 Replacement of Door Actuator Lock Assemblies (STOVL/CTOL Door Locks) TI-7777-0087 CTOL/STOVL/CV Flaperon EHA Pump Design Change TI-7777-0089 CR-017095 Avionics Bay Environmental Seal Change TI-7777-0093 CR-017505 Flow Sensor EMI/Vibration TI-7777-0095 MVR-0X0008 Manual Drive Unit TI-7777-0097 IEU Lightning Compliance TI-7777-0101 NLG Down Lock Actuator TI-7777-1001 LRIP 1&2 Block 1 Upgrade TI-7777-1002 Replacement of Block 1B Hardware and Issuance of Block 1B Software TI-9999-0191 CR-023040/CR-024623 Interim Solution - 270V BCCU TI-9999-1650 MWARS for Production Seat - LRIP 5 Only		
Milestone/Development Status		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES For the F-35 program, the discovery of new concurrency changes phases out with the completion of SDD.		

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F03500 / F-35 Modifications					Modification Number / Title: 2 / Concurrency			
Models of Systems Affected: F-35A				Modification Type: Other				Related RDT&E PEs: 0604800F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Concurrency</i>													
A Kits													
Recurring													
Concurrency:INSTALL KITS Group A (Active)													
	- / 134.728	- / 101.290	- / 12.930	- / 153.820	- / -	- / 153.820	- / 345.376	- / 198.454	- / 63.050	- / 70.639	- / -	- / 1,080.287	
<i>Subtotal: Recurring</i>	- / 134.728	- / 101.290	- / 12.930	- / 153.820	- / -	- / 153.820	- / 345.376	- / 198.454	- / 63.050	- / 70.639	- / -	- / 1,080.287	
<i>Subtotal: Concurrency</i>	- / 134.728	- / 101.290	- / 12.930	- / 153.820	- / -	- / 153.820	- / 345.376	- / 198.454	- / 63.050	- / 70.639	- / -	- / 1,080.287	
<i>Subtotal: Procurement, All Modification Items</i>	- / 134.728	- / 101.290	- / 12.930	- / 153.820	- / -	- / 153.820	- / 345.376	- / 198.454	- / 63.050	- / 70.639	- / -	- / 1,080.287	
Support (All Modification Items)													
ICS-Labor													
	- / -	- / 3.500	- / 5.250	- / 5.000	- / -	- / 5.000	- / 29.328	- / 28.968	- / 25.513	- / 26.577	- / -	- / 124.136	
OTHER GOVT													
	- / -	- / 0.300	- / 0.400	- / 5.500	- / -	- / 5.500	- / 5.533	- / 5.805	- / 5.012	- / 5.513	- / -	- / 28.063	
<i>Subtotal: Support</i>	- / -	- / 3.800	- / 5.650	- / 10.500	- / -	- / 10.500	- / 34.861	- / 34.773	- / 30.525	- / 32.090	- / -	- / 152.199	
Installation													
<i>Subtotal: Installation</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	134.728	105.090	18.580	164.320	-	164.320	380.237	233.227	93.575	102.729	-	1,232.486	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 2 / Concurrency
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Modification Item 1 of 1: Concurrency

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth
Administrative Leadtime (<i>in Months</i>): 0	Production Leadtime (<i>in Months</i>): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 0
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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

P-1 Line Item Number / Title:
F2232B / Increment 3.2b

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207138F **Other Related Program Elements:** 0605213F

Line Item MDAP/MAIS Code: 474 **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	92.825	76.410	-	76.410	145.679	13.081	20.373	20.749	-	369.117
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	28.500	-	-	-	2.000	-	-	-	-	30.500
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	64.325	76.410	-	76.410	143.679	13.081	20.373	20.749	-	338.617
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	28.500	-	2.000	-	2.000	-	-	-	-	-	30.500
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	28.500	64.325	78.410	-	78.410	143.679	13.081	20.373	20.749	-	369.117

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

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

Description:

Increment 3.2B retrofits Block 30 and 35 aircraft with hardware to host Increment 3.2B capabilities including the Enhanced Stores Management System (ESMS) Common Split Bus, AIM-120D, AIM-9X, Electronic Protection enhancements, Intra-Flight Datalink (IFDL) improvements, and Geolocate 2.0. Increment 3.2B is the user's highest priority for F-22.

F-22 Increment 3.2B procurement completes prior to FY2022 therefore there is no cost to complete.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	28.500	64.325	78.410	-	78.410	112.762	13.081	14.901	20.749
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	30.917	-	5.472	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	28.500	64.325	78.410	-	78.410	143.679	13.081	20.373	20.749

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

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

P-1 Line Item Number / Title:
F2232B / Increment 3.2b

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207138F **Other Related Program Elements:** 0605213F

Line Item MDAP/MAIS Code: 474 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	11100 / INCREMENT 3.2B (Capability Improvement)			- / 0.000	- / -	- / 92.825	- / 76.410	- / -	- / 76.410
P-40	Total Gross/Weapon System Cost			- / 0.000	- / -	- / 92.825	- / 76.410	- / -	- / 76.410

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	11100 / INCREMENT 3.2B (Capability Improvement)			- / 145.679	- / 13.081	- / 20.373	- / 20.749	- / -	- / 369.117
P-40	Total Gross/Weapon System Cost			- / 145.679	- / 13.081	- / 20.373	- / 20.749	- / -	- / 369.117

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F2232B / Increment 3.2b				Modification Number / Title: 11100 / INCREMENT 3.2B				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	92.825	76.410	-	76.410	145.679	13.081	20.373	20.749	-	369.117
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	28.500	-	-	-	2.000	-	-	-	-	30.500
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	64.325	76.410	-	76.410	143.679	13.081	20.373	20.749	-	338.617
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	28.500	-	2.000	-	2.000	-	-	-	-	-	30.500
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	28.500	64.325	78.410	-	78.410	143.679	13.081	20.373	20.749	-	369.117

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

Initial Spares (<i>\$ in Millions</i>)	-	-	2.822	4.431	-	4.431	7.720	-	-	-	-	14.973
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Increment 3.2B retrofits Block 30 and 35 aircraft with hardware to host Increment 3.2B Enhanced Stores Management System (ESMS) Common Split Bus, AIM-120D, AIM-9X, Electronic Protection enhancements, IFDL improvements, and Geolocate 2.0. Increment 3.2B is the user's highest priority for F-22.

Milestone/Development Status

All hardware is qualified and is being installed on 3.2B test aircraft. Developmental test & evaluation continues to 2nd Qtr. FY17; operational test & evaluation planned to begin in 3rd Qtr. FY17.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	28.500	64.325	78.410	-	78.410	112.762	13.081	14.901	20.749
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	30.917	-	5.472	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	92.825	76.410	-	76.410	145.679	13.081	20.373	20.749

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F2232B / Increment 3.2b					Modification Number / Title: 11100 / INCREMENT 3.2B			
Models of Systems Affected: F-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0605213F, 0207138F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0207138F	- / 617.559	- / 163.877	- / 140.640	- / 70.290	- / -	- / 70.290	- / -	- / -	- / -	- / -	- / -	- / 992.366	
Procurement													
Modification Item 1 of 1: Inc 3.2B Kits													
A Kits													
Recurring													
Inc 3.2B Kits:INSTALL KITS Group A (Active)	- / -	- / -	35 / 0.500	36 / 0.500	- / -	36 / 0.500	72 / 0.900	- / -	- / -	- / -	- / -	143 / 1.900	
Subtotal: Recurring	- / -	- / -	- / 0.500	- / 0.500	- / -	- / 0.500	- / 0.900	- / -	- / -	- / -	- / -	- / 1.900	
B Kits													
Recurring													
Inc 3.2B Kits:EQUIPMENT Group B (Active)	0 / 0.000	- / -	35 / 85.725	36 / 61.625	- / -	36 / 61.625	52 / 80.383	- / -	- / -	- / -	- / -	123 / 227.733	
Inc 3.2B Kits:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	20 / 30.917	- / -	- / -	- / -	- / -	20 / 30.917	
Subtotal: Recurring	- / 0.000	- / -	- / 85.725	- / 61.625	- / -	- / 61.625	- / 111.300	- / -	- / -	- / -	- / -	- / 258.650	
Subtotal: Inc 3.2B Kits	- / 0.000	- / -	- / 86.225	- / 62.125	- / -	- / 62.125	- / 112.200	- / -	- / -	- / -	- / -	- / 260.550	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / 86.225	- / 62.125	- / -	- / 62.125	- / 112.200	- / -	- / -	- / -	- / -	- / 260.550	
Support (All Modification Items)													
Data	- / -	- / -	- / 2.200	- / 2.400	- / -	- / 2.400	- / 3.000	- / 0.221	- / 0.400	- / -	- / -	- / 8.221	
PMA - Other Gov't Costs	- / -	- / -	- / 4.400	- / 11.885	- / -	- / 11.885	- / 20.979	- / 3.089	- / 0.273	- / 20.749	- / -	- / 61.375	
Subtotal: Support	- / -	- / -	- / 6.600	- / 14.285	- / -	- / 14.285	- / 23.979	- / 3.310	- / 0.673	- / 20.749	- / -	- / 69.596	
Installation													
Modification Item 1 of 1: Inc 3.2B Kits													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	35 / 9.500	36 / 9.771	72 / 19.700	- / -	- / -	143 / 38.971	
Total	0.000	-	92.825	76.410	-	76.410	145.679	13.081	20.373	20.749	-	369.117	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F2232B / Increment 3.2b	Modification Number / Title: 11100 / INCREMENT 3.2B

Modification Item 1 of 1: Inc 3.2B Kits

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 24

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017	Jan 2018			
Delivery Dates		Jan 2018	Jan 2019	Jan 2020			

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	35 / 9.500	- / -	- / -	- / -	- / -	35 / 9.500
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 9.771	- / -	- / -	- / -	36 / 9.771
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 19.700	- / -	- / -	72 / 19.700
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	35 / 9.500	36 / 9.771	72 / 19.700	- / -	- / -	143 / 38.971

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	-	-	-	-	-	-	11	12	12	9	9	9	9	18	18	18	18	-	-	-	-	-	143
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	11	12	12	9	9	9	9	18	18	18	18	-	-	-	-	-	143

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F2232B / Increment 3.2b
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Program Elements for Code B Items: 0207138F	Other Related Program Elements: 0605213F
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Line Item MDAP/MAIS Code: 474	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	28.500	-	2.000	-	2.000	-	-	-	-	-	30.500
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	28.500	-	2.000	-	2.000	-	-	-	-	-	30.500
Total Obligation Authority (<i>\$ in Millions</i>)	-	28.500	-	2.000	-	2.000	-	-	-	-	-	30.500

Description:

Inc. 3.2B FY17 Advance Procurement procures 1184 cable assemblies that are long lead items required for Full Rate(FRP) kit production scheduled to begin 3rd Qtr. FY18.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F2232B / Increment 3.2b
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Program Elements for Code B Items: 0207138F	Other Related Program Elements: 0605213F
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Line Item MDAP/MAIS Code: 474	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	ID CD	Quantity / 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	11100 / INCREMENT 3.2B		- / -	- / 28.500	- / -	- / 2.000	- / -	- / 2.000
P-40	Total Gross/Weapon System Cost		- / -	- / 28.500	- / -	- / 2.000	- / -	- / 2.000

Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	ID CD	Quantity / 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	11100 / INCREMENT 3.2B		- / -	- / -	- / -	- / -	- / -	- / 30.500
P-40	Total Gross/Weapon System Cost		- / -	- / -	- / -	- / -	- / -	- / 30.500

*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:
 Advance procurement prevents potential 16 month delay to start of FRP kit production.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F2232B / Increment 3.2b							P-3a Number / Title: 11100 / INCREMENT 3.2B		
First System (2017) Award Date: February 2017		First System (2017) Completion Date: April 2017				Interval Between Systems: 2 Months						
INCREMENT 3.2B		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2015 <i>(Each)</i>	FY 2016 <i>(Each)</i>	FY 2017 <i>(Each)</i>	FY 2018 <i>(Each)</i>	FY 2019 <i>(Each)</i>	FY 2020 <i>(Each)</i>	FY 2021 <i>(Each)</i>	To Complete <i>(Each)</i>	Total <i>(Each)</i>
Quantity		26	-	-	-	-	-	-	-	-	-	-
Cost Elements		When Required <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2015 <i>(\$ M)</i>	FY 2016 <i>(\$ M)</i>	FY 2017 <i>(\$ M)</i>	FY 2018 <i>(\$ M)</i>	FY 2019 <i>(\$ M)</i>	FY 2020 <i>(\$ M)</i>	FY 2021 <i>(\$ M)</i>	To Complete <i>(\$ M)</i>	Total <i>(\$ M)</i>
CFE												
Equipment		26	-	28.500	-	2.000	-	-	-	-	-	30.500
<i>Total: CFE</i>			-	28.500	-	2.000	-	-	-	-	-	30.500
Total Advance Procurement/Obligation Authority			-	28.500	-	2.000	-	-	-	-	-	30.500

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F2232B / Increment 3.2b	P-3a Number / Title: 11100 / INCREMENT 3.2B
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Cost Elements	QPA <i>(Each)</i>	Production Leadtime <i>(Months)</i>	FY 2017				Total Cost Request <i>(\$ M)</i>
			Unit Cost <i>(\$ M)</i>	Contract Forecast Date	2017 Qty <i>(Each)</i>	For FY	
CFE							
Equipment	1,184	26	0.002	Feb 2017	1,184		2.000
<i>Total: CFE</i>							2.000
Total Advance Procurement/Obligation Authority							2.000

Description:

FY17 Advance Procurement procures 1184 cable assemblies that are long lead items required for Full Rate (FRP)kit production scheduled to begin 3rd Qtr. FY18.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C00500 / C-5

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0401119F **Other Related Program Elements:** 0401119F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,224.971	14.731	2.604	24.192	-	24.192	39.934	71.992	72.357	73.690	16.999	1,541.470
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,224.971	14.731	2.604	24.192	-	24.192	39.934	71.992	72.357	73.690	16.999	1,541.470
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,224.971	14.731	2.604	24.192	-	24.192	39.934	71.992	72.357	73.690	16.999	1,541.470

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

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

Description:

This line item funds modifications to the C-5 aircraft. The C-5 carries outsized and heavy cargo (tanks, helicopters, etc.) between main operating bases. Additionally, the aircraft is capable of carrying 73 troops and 36 standard 463-L pallets. Modifications enhance operational capability while improving flight safety, reliability, and maintainability.

There are 57 C-5 aircraft in the Air Force fleet as of January 2, 2016. The C-5 fleet was delivered to the Air Force from 1969 to 1989. Initial service life for the aircraft was 30,000 flight hours. Service life is extended to at least CY 2040 as a result of the reliability enhancement and re-engining program (RERP) modification. Primary production funding interest in FY17 is in support of the C-5 core mission computer/ weather radar (CMC/WxRdr) modification.

Funding may be used to address diminishing manufacturing source (DMS) issues.

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

Funding for this exhibit is contained in PE 0401119F.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.233	2.604	23.097	-	23.097	38.779	69.307	53.119
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.498	-	1.095	-	1.095	1.155	2.685	19.238
Total:	Quantity	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C00500 / C-5
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401119F	Other Related Program Elements: 0401119F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	14.731	2.604	24.192	-	24.192	39.934	71.992	72.357	73.690

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C00500 / C-5

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0401119F **Other Related Program Elements:** 0401119F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	6032 / COMPARTMENT FLOOR CORROSION PREVENTION (Reliability & Maintainability)			- / 0.156	- / -	- / -	- / -	- / -	- / -
P-40a***	6154 / C-5 RELIABILITY ENHANCEMENT & REENGINEING PROGRAM (RERP) (Reliability & Maintainability)			- / 825.155	- / -	- / -	- / -	- / -	- / -
P-40a***	8629 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCМ) (Capability Improvement)			- / 365.904	- / -	- / -	- / -	- / -	- / -
P-40a***	8869 / Defensive System Installation (Capability Improvement)			- / 24.175	- / -	- / -	- / -	- / -	- / -
P-40a***	8965 / C-5 Fleet Blk Upgrade 01 (Other)			- / 7.615	- / 14.616	- / -	- / -	- / -	- / -
P-40a***	8966 / C-5 Mission Systems Equipment- Lavatory (Other)			- / -	- / 0.065	- / 2.304	- / 3.950	- / -	- / 3.950
P-40a***	8968 / Mode 5 Swift Broadband BLOS/LOS Radio (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Mods (Other)			- / 1.966	- / -	- / 0.300	- / 0.428	- / -	- / 0.428
P-3a	8967 / Mission Computer and Weather Radar (Other)			- / 0.000	- / 0.050	- / -	- / 19.814	- / -	- / 19.814
P-40	Total Gross/Weapon System Cost			- / 1,224.971	- / 14.731	- / 2.604	- / 24.192	- / -	- / 24.192

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	6032 / COMPARTMENT FLOOR CORROSION PREVENTION (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 0.156
P-40a***	6154 / C-5 RELIABILITY ENHANCEMENT & REENGINEING PROGRAM (RERP) (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 825.155
P-40a***	8629 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCМ) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 365.904
P-40a***	8869 / Defensive System Installation (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 24.175
P-40a***	8965 / C-5 Fleet Blk Upgrade 01 (Other)			- / 0.949	- / -	- / -	- / -	- / -	- / 23.180
P-40a***	8966 / C-5 Mission Systems Equipment- Lavatory (Other)			- / 4.688	- / 8.689	- / 8.902	- / 9.300	- / 5.404	- / 43.302
P-40a***	8968 / Mode 5 Swift Broadband BLOS/LOS Radio (Capability Improvement)			- / 7.821	- / 23.613	- / 27.571	- / 46.746	- / 11.595	- / 117.346
P-40a***	99999X / Low Cost Mods (Other)			- / -	- / 0.820	- / -	- / 1.999	- / -	- / 5.513
P-3a	8967 / Mission Computer and Weather Radar (Other)			- / 26.476	- / 38.870	- / 35.884	- / 15.645	- / -	- / 136.739
P-40	Total Gross/Weapon System Cost			- / 39.934	- / 71.992	- / 72.357	- / 73.690	- / 16.999	- / 1,541.470

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

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

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft		P-1 Line Item Number / Title: C00500 / C-5
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401119F	Other Related Program Elements: 0401119F
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3					P-1 Line Item Number / Title: C00500 / C-5					Modification Number / Title: 8967 / Mission Computer and Weather Radar		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.050	-	19.814	-	19.814	26.476	38.870	35.884	15.645	-	136.739
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.050	-	19.814	-	19.814	26.476	38.870	35.884	15.645	-	136.739
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.050	-	19.814	-	19.814	26.476	38.870	35.884	15.645	-	136.739
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	0.382	2.348	-	2.348	1.826	3.160	3.111	-	-	10.827
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The core mission computer (CMC) and weather radar (WxRadar) requirement is for the modification of 50 production C-5M aircraft. The CMC/WxRadar replacement program is a comprehensive permanent sustainment effort, as described in validated requirements per AMC AF Form 1067s 11-152 and 11-153, to mitigate the obsolescence of the current CMC and WxRadar. This effort centers around modifying the current CMC to obtain sufficient capability to support integration of new system capabilities with margin for growth. Additionally, the effort includes replacement of the WxRadar with a commercial off-the-shelf WxRadar common to other aircraft platforms.

The current C-5 CMC has reached maximum capacity and cannot integrate aircraft systems and capabilities for WxRadar. The new CMC is required for current and future throughput growth of additional processing requirements to meet calendar year 2020 CNS/ATM mandates in order to keep the C-5 worldwide deployable. This modification replaces the current APS-133 weather radar with the COTS Rockwell Collins WXR-2100 weather radar. In addition, this modification replaces the current core processing module (CPM) cards in the aircraft core mission computer (CMC) with new Honeywell CPM II cards. The new weather radar has the same capability as the current model but in a supportable unit to resolve severe supportability challenges due to diminishing manufacturing source (DMS) issues. The current CMC has limited throughput, cannot accept additional processing requirements, and has less than 20% spare processing and memory capability. The new CMC will have a 80% (threshold) to 120% (objective) spare capacity.

Failure to modify the CMC and replace the Wx Radar will result in recently modified C-5Ms not being worldwide capable due to 2020 communication, navigation, surveillance/air traffic management (CNS/ATM) mandates and the severe DMS/parts obsolescence issues of the current radar.

The CMC/WxRadar program is the baseline for all future modifications to the C-5.

Equipment DMS issues will be resolved to support continued production and installation of requirements for the C-5M fleet. Funding will be used to address DMS issues. Further, DMS issues will be resolved to support continued operations through studies, bridge buys, life-of-type buys, development and redesign efforts.

Available funds in this modification are used for program management administration, change orders, and other government costs such as travel, directorate support, government furnished equipment (GFE), DMS, and over and above costs. Installation costs vary due to where the installation takes place or due to the installation strategy of completing the modification as a standalone action or combined with a maintenance effort such as programmed depot maintenance (PDM).

There is a total of 7 trainers be updated, 5 are weapon systems trainers (WST) and 2 are aircrew maintenance system trainer (AMST).

Milestone/Development Status

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar

The development strategy has considered every opportunity to use commercial components to modernize the C-5M to meet or exceed required system performance and support in order to sustain the current and future capabilities of the weapon system. The prime contractor, Lockheed Martin Aero (LMA), is performing engineering, manufacturing, development (EMD) activities of the core mission computer (CMC) and integration of the weather radar (WxRadar) on two C-5Ms.

Initial tests on the spare capacity of three CMC CPM II cards showed favorable results at 94%, 105%, and 130%. A delay in completion of the critical design review (CDR) milestone due to an aggressive schedule (completed July 2015) is being recovered through overlapping several test events. The first aircraft was inducted on schedule in October 2015 and is expected to begin DT&E on schedule in March 2016.

The program office is exploring a full and open competition for the production kits, installation on low rate initial production (LRIP), and interim contract support (ICS). Preliminary plans call for the depot to perform the installations on the remaining full rate production (FRP) aircraft.

RDT&E Milestones

Material Development Decision: 1Q 2012

Milestone B/Engineering, Manufacturing, and Development (EMD): 4Q 2013

EMD Contract Award: 2Q 2014

Preliminary Design Review: 1Q 2015

Critical Design Review: 4Q 2015

Begin DT&E: 2Q 2016

Training Development Complete: 2Q 2017

Integrated Development/Operation Test and Evaluation Complete: 2Q 2017

Technical Data Package Delivery: 2Q 2017

Milestone C Complete: 1Q 2017

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.050	-	19.814	-	19.814	26.476	38.870	25.102	8.271
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	10.782	7.374
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.050	-	19.814	-	19.814	26.476	38.870	35.884	15.645

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar

Models of Systems Affected: C-5M	Modification Type: Other	Related RDT&E PEs: 0401119F
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
RDT&E PE #												
0401119F	- / 59.537	- / 31.772	2 / 7.403	- / 11.837	- / -	- / 11.837	- / -	- / -	- / -	- / -	- / -	2 / 110.549

Procurement

Modification Item 1 of 1: CMC/WxRadar												
A Kits												
Recurring												
CMC/WxRadar:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
CMC/WxRadar:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
CMC/WxRadar:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
CMC/WxRadar:EQUIPMENT Group B (Active)	- / -	- / -	- / -	7 / 7.022	- / -	7 / 7.022	9 / 9.642	15 / 11.897	3 / 2.696	- / -	- / -	34 / 31.257
CMC/WxRadar:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
CMC/WxRadar:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 10.782	4 / 4.278	- / -	16 / 15.060
Subtotal: Recurring	- / -	- / -	- / -	- / 7.022	- / -	- / 7.022	- / 9.642	- / 11.897	- / 13.478	- / 4.278	- / -	- / 46.317
Subtotal: CMC/WxRadar	- / -	- / -	- / -	- / 7.022	- / -	- / 7.022	- / 9.642	- / 11.897	- / 13.478	- / 4.278	- / -	- / 46.317
Subtotal: Procurement, All Modification Items	- / -	- / -	- / -	- / 7.022	- / -	- / 7.022	- / 9.642	- / 11.897	- / 13.478	- / 4.278	- / -	- / 46.317

Support (All Modification Items)

GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Change Orders	- / -	- / -	- / -	- / 0.388	- / -	- / 0.388	- / 0.491	- / 0.461	- / 1.130	- / 1.375	- / -	- / 3.845
Data	- / -	- / -	- / -	- / 2.425	- / -	- / 2.425	- / 1.976	- / 2.424	- / 2.512	- / 0.054	- / -	- / 9.391
SIM/TRAINER	- / -	- / -	- / -	1 / 2.990	- / -	1 / 2.990	2 / 4.397	4 / 12.758	- / -	- / -	- / -	7 / 20.145
SUPPORT-EQUIP	- / -	- / -	- / -	- / 0.012	- / -	- / 0.012	- / 0.030	- / 0.037	- / 0.038	- / -	- / -	- / 0.117
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.176	- / -	- / 0.176	- / 0.222	- / 0.207	- / 0.689	- / 0.894	- / -	- / 2.188
PMA - Contractor Services	- / -	- / -	- / -	- / 0.449	- / -	- / 0.449	- / 0.567	- / 0.530	- / 1.761	- / 1.008	- / -	- / 4.315
A&AS	- / -	- / -	- / -	- / 0.234	- / -	- / 0.234	- / 0.296	- / 0.276	- / 0.919	- / 0.526	- / -	- / 2.251
OTHER GOVT	- / -	- / 0.050	- / -	- / 2.040	- / -	- / 2.040	- / 3.368	- / 3.392	- / 6.399	- / 4.221	- / -	- / 19.470
ICS-Material	- / -	- / -	- / -	- / 2.409	- / -	- / 2.409	- / 2.574	- / 2.760	- / 2.520	- / -	- / -	- / 10.263
ICS-Labor	- / -	- / -	- / -	- / 1.415	- / -	- / 1.415	- / 1.512	- / 1.621	- / 1.480	- / -	- / -	- / 6.028
Subtotal: Support	- / -	- / 0.050	- / -	1 / 12.538	- / -	1 / 12.538	2 / 15.433	4 / 24.466	- / 17.448	- / 8.078	- / -	7 / 78.013

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar

Models of Systems Affected: C-5M	Modification Type: Other	Related RDT&E PEs: 0401119F
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Installation												
<i>Modification Item 1 of 1:</i> CMC/WxRadar	- / -	- / -	- / -	1 / 0.254	- / -	1 / 0.254	8 / 1.401	10 / 2.507	14 / 4.958	17 / 3.289	- / -	50 / 12.409
<i>Subtotal: Installation</i>	- / -	- / -	- / -	1 / 0.254	- / -	1 / 0.254	8 / 1.401	10 / 2.507	14 / 4.958	17 / 3.289	- / -	50 / 12.409
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.050	-	19.814	-	19.814	26.476	38.870	35.884	15.645	-	136.739

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar

Modification Item 1 of 1: CMC/WxRadar

Manufacturer Information

Manufacturer Name: Lockheed Martin Aero	Manufacturer Location: GA
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			May 2017	May 2018	May 2019	May 2020	May 2021
Delivery Dates			Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	1 / 0.254	- / -	1 / 0.254	6 / 1.051	- / -	- / -	- / -	- / -	7 / 1.305
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.350	7 / 1.755	- / -	- / -	- / -	9 / 2.105
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.752	12 / 4.250	- / -	- / -	15 / 5.002
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.708	13 / 2.514	- / -	15 / 3.222
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.775	- / -	4 / 0.775
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.254	- / -	1 / 0.254	8 / 1.401	10 / 2.507	14 / 4.958	17 / 3.289	- / -	50 / 12.409

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	1	3	3	-	2	2	4	1	3	5	5	2	2	4	4	5	4	-	50
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	-	1	2	3	3	5	1	5	4	2	4	4	5	4	50

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C005M0 / C-5M
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401119F	Other Related Program Elements: 0401119F
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Line Item MDAP/MAIS Code: 327	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,477.875	317.466	-	-	-	-	-	-	-	-	-	3,795.341
Less PY Advance Procurement (<i>\$ in Millions</i>)	175.800	-	-	-	-	-	-	-	-	-	-	175.800
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,302.075	317.466	-	-	-	-	-	-	-	-	-	3,619.541
Plus CY Advance Procurement (<i>\$ in Millions</i>)	175.800	-	-	-	-	-	-	-	-	-	-	175.800
Total Obligation Authority (<i>\$ in Millions</i>)	3,477.875	317.466	-	-	-	-	-	-	-	-	-	3,795.341

(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 four-engine C-5 carries outsized and heavy cargo (tanks, helicopters, etc.) between main operating bases. Additionally, the aircraft is capable of carrying 73 troops and 36 standard 463-L pallets.

The C-5 fleet was delivered to the Air Force from 1969 to 1989. Initial service life for the aircraft was 30,000 flight hours. Air Force plans to retire the C-5A fleet of 59 aircraft. That process began in FY11 and 54 of those aircraft were retired as of 21 December 2015.

There are 57 C-5A/B/C/M aircraft in the Air Force fleet as of 21 December 2015. Five of that fleet are C-5 A-models, which are for support of Westover Air Reserve Base (AFRC) of operational/maintenance requirements until the unit begins receipt of its eight C-5M aircraft in May 2017. The five C-5As will be retired in CY2017 on a one-for-one basis as the unit receives the C-5M.

Once the C-5A aircraft fleet is retired, the Air Force will have a fleet of 49 C-5M aircraft and three C-5B aircraft undergoing modification to the C-5M configuration.

Funding for this exhibit is contained in PE 0401119F.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	122.002	-	-	-	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	195.464	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	317.466	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft **P-1 Line Item Number / Title:**
C005M0 / C-5M

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0401119F **Other Related Program Elements:** 0401119F

Line Item MDAP/MAIS Code: 327 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	6154 / C-5 Reliability Enhancement and Re-Engining Program (Capability Improvement)			- / 3,477.875	- / 317.466	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 3,477.875	- / 317.466	- / -	- / -	- / -	- / -

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	6154 / C-5 Reliability Enhancement and Re-Engining Program (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 3,795.341
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 3,795.341

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

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

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C01700 / C-17A
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401130F	Other Related Program Elements: 0401130F
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Line Item MDAP/MAIS Code: 200	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,570.483	86.394	43.697	21.555	-	21.555	93.547	63.526	52.445	53.412	149.725	3,134.784
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,570.483	86.394	43.697	21.555	-	21.555	93.547	63.526	52.445	53.412	149.725	3,134.784
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,570.483	86.394	43.697	21.555	-	21.555	93.547	63.526	52.445	53.412	149.725	3,134.784

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

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

Description:

This line item funds modifications to the C-17 aircraft. The four engine C-17 is the only aircraft capable of routine delivery of outsize cargo (tanks, helicopters, etc.) to short, austere airfields. The aircraft can carry up to 102 troops, 36 litter patients, or 18 standard 463-L pallets.

The United States Air Force (USAF) C-17 inventory is 222 aircraft with a certified service life (CSL) of 42,750 equivalent flight hours (EFH). The CSL is captured in the USAF Technical Airworthiness Authority issued legacy C-17 Military Type Certificate No. C-17-C0001 dated 28 February 2013. The current EFH for the C-17 is 9,670 hours.

Major C-17 modifications in FY17 include Pylon Stub Flammable Fluid Leakage Zone (FFLZ) Fixed Fairing (FF) Translating Fairing, Identification Friend or Foe Global Air Traffic Management (IFF GATM) Mode 5 and Next Generation Communication Navigation Surveillance/Air Traffic Management (CNS/ATM).

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

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L.110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.

The FY17 funding request was reduced by \$43.9M to account for the availability of prior year execution balances.

Funding for this exhibit is contained in PE 0401130F.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	70.076	41.930	21.555	-	21.555	83.280	58.679	50.959
AFNG	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C01700 / C-17A
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401130F	Other Related Program Elements: 0401130F
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Line Item MDAP/MAIS Code: 200	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
	Total Obligation Authority	14.722	0.732	-	-	-	9.235	4.847	1.486	1.412
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.596	1.035	-	-	-	1.032	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	86.394	43.697	21.555	-	21.555	93.547	63.526	52.445	53.412

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C01700 / C-17A

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0401130F **Other Related Program Elements:** 0401130F

Line Item MDAP/MAIS Code: 200 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	_2590 / ELT Frequency Change (Capability Improvement)			- / 3.062	- / -	- / -	- / -	- / -	- / -
P-40a***	_2633 / MFOQA (Capability Improvement)			- / 11.622	- / 0.946	- / 1.502	- / -	- / -	- / -
P-40a***	_3080 / Replacement Heads Up Display (RHUD) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	_359 / C-17 Sim Threat Generator (Other)			- / 2.792	- / -	- / -	- / -	- / -	- / -
P-40a***	_8962 / Block 13 to 17 Retrofit (Capability Improvement)			- / 857.411	- / 17.194	- / -	- / -	- / -	- / -
P-40a***	0399 / AIRLIFT DEFENSIVE SYSTEMS-COUNTERMEASURES (Capability Improvement)			- / 0.498	- / -	- / -	- / -	- / -	- / -
P-40a***	2901 / NEXT GEN CNS/ATM (Capability Improvement)			- / -	- / 25.355	- / 10.761	- / 2.487	- / -	- / 2.487
P-40a***	6402 / OBIGGS II (Capability Improvement)			- / 86.877	- / 0.855	- / -	- / -	- / -	- / -
P-40a***	6403 / OBIGGS II Filter Fire Mitigation (2.1) (Capability Improvement)			- / -	- / -	- / -	- / 0.615	- / -	- / 0.615
P-40a***	6412 / Extended Range Retrofit/OBIGGS II (Capability Improvement)			- / 186.727	- / -	- / -	- / -	- / -	- / -
P-40a***	8629 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) (Capability Improvement)			- / 1,284.939	- / -	- / -	- / -	- / -	- / -
P-40a***	9151 / Mobility Air Force Dynamic Retasking Capability (MAF DRC) (Capability Improvement)			- / 20.575	- / -	- / -	- / -	- / -	- / -
P-40a***	9739 / ILS Identification and Flight Control Computer Updates (Capability Improvement)			- / 10.783	- / -	- / -	- / -	- / -	- / -
P-40a***	9740 / Fixed Installation Satellite Antenna (FISA 2) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 3.117	- / -	- / -	- / 0.543	- / -	- / 0.543
P-3a	2000 / Pylon Stub FFLZ, FF, Translating Fairing (Safety)			- / 70.269	- / 8.709	- / 3.711	- / 11.607	- / -	- / 11.607
P-3a	1508 / IFF GATM Mode 5 (Capability Improvement)			- / 31.811	- / 33.335	- / 27.723	- / 6.303	- / -	- / 6.303
P-40	Total Gross/Weapon System Cost			- / 2,570.483	- / 86.394	- / 43.697	- / 21.555	- / -	- / 21.555

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	_2590 / ELT Frequency Change (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 3.062
P-40a***	_2633 / MFOQA (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 14.070
P-40a***	_3080 / Replacement Heads Up Display (RHUD) (Capability Improvement)			- / 8.585	- / 24.009	- / 38.694	- / 44.634	- / 118.681	- / 234.603
P-40a***	_359 / C-17 Sim Threat Generator (Other)			- / -	- / -	- / -	- / -	- / -	- / 2.792
P-40a***	_8962 / Block 13 to 17 Retrofit (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 874.605
P-40a***	0399 / AIRLIFT DEFENSIVE SYSTEMS-COUNTERMEASURES (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 0.498
P-40a***	2901 / NEXT GEN CNS/ATM (Capability Improvement)			- / 5.304	- / 6.500	- / 7.244	- / 2.403	- / 12.603	- / 72.657
P-40a***	6402 / OBIGGS II (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 87.732

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C01700 / C-17A

ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401130F	Other Related Program Elements: 0401130F
Line Item MDAP/MAIS Code: 200	Item MDAP/MAIS Code(s): N/A	

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	6403 / OBIGGS II Filter Fire Mitigation (2.1) (Capability Improvement)			- / 3.995	- / 2.807	- / 2.620	- / 3.295	- / 8.577	- / 21.909
P-40a***	6412 / Extended Range Retrofit/OBIGGS II (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 186.727
P-40a***	8629 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 1,284.939
P-40a***	9151 / Mobility Air Force Dynamic Retasking Capability (MAF DRC) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 20.575
P-40a***	9739 / ILS Identification and Flight Control Computer Updates (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 10.783
P-40a***	9740 / Fixed Installation Satellite Antenna (FISA 2) (Capability Improvement)			- / 8.717	- / 19.032	- / -	- / -	- / -	- / 27.749
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.100	- / 0.010	- / -	- / -	- / -	- / 3.770
P-3a	2000 / Pylon Stub FFLZ, FF, Translating Fairing (Safety)			- / 5.061	- / -	- / -	- / -	- / -	- / 99.357
P-3a	1508 / IFF GATM Mode 5 (Capability Improvement)			- / 61.785	- / 11.168	- / 3.887	- / 3.080	- / 9.864	- / 188.956
P-40	Total Gross/Weapon System Cost			- / 93.547	- / 63.526	- / 52.445	- / 53.412	- / 149.725	- / 3,134.784

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3				P-1 Line Item Number / Title: C01700 / C-17A				Modification Number / Title: 2000 / Pylon Stub FFLZ, FF, Translating Fairing				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	70.269	8.709	3.711	11.607	-	11.607	5.061	-	-	-	-	99.357
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	70.269	8.709	3.711	11.607	-	11.607	5.061	-	-	-	-	99.357
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	70.269	8.709	3.711	11.607	-	11.607	5.061	-	-	-	-	99.357
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This retrofit project consists of seven separate projects done concurrently to save labor hours and to reduce cost and schedule risk. This project retrofits 130 C-17 aircraft (P1-P72 & P74-P131) for multiple actions to the pylon stub, fixed fairing, translating fairing, and wing leading edge.

The first project is a correction of the Flammable Fluid Leakage Zone (FFLZ) areas of the pylon stub, fixed and translating fairings, and the wing leading edge. Drainage and ventilation improvements to these FFLZ areas must be accomplished in order to resolve safety and crisis management team issues. Since retrofit of the FFLZ fixes requires removal and disassembly of the fixed and translating fairings, significant synergy and a major reduction in risk is achieved by combining retrofit projects.

The second project is the retrofit of a new titanium fixed fairing (FF) designed to resolve maintenance and dropped object issues. High temperatures and acoustic loads have led to significant problems with the existing aluminum design.

The third project is incorporation of the new translating fairing slider bearings. The two forward slider bearings were previously retrofitted; this project completes the retrofit by correcting the aft slider bearing.

The fourth project in the retrofit program that replaces the translating fairing rivets. These fairings have led to multiple dropped object incidents. The original concept for retrofit was to rework existing fairings. However, a trade study revealed that reworked fairings cost 86% of the cost of new fairings. Therefore, rivet replacement will be accomplished indirectly by purchasing new translating fairings instead of reworking existing fairings.

Three minor additional changes - Fixed Fairing Seal, Fairing Assembly Lower-pylon Wing, and Translating Wing Stub Fairing Assembly were included to remain compatible with the production configuration.

All kits have been purchased. In FY15, 8 of the 18 installs were procured with FY13 funds and 10 were procured with FY14 funds. FY16 through FY18 are installs only. All 130 installs of Pylon Stub FFLZ are scheduled to be complete by FY18.

This modification effort is part of the C-17 Common Configuration Program.

Modifications are performed at Boeing San Antonio and Warner Robins Depots.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. Project allocations by component are subject to total force mission priorities and aircraft availability.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 2000 / Pylon Stub FFLZ, FF, Translating Fairing

Milestone/Development Status

Development complete

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.921	2.002	11.607	-	11.607	0.674	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.515	0.732	-	-	-	3.355	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.273	0.977	-	-	-	1.032	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.709	3.711	11.607	-	11.607	5.061	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 2000 / Pylon Stub FFLZ, FF, Translating Fairing

Models of Systems Affected: C-17	Modification Type: Safety	Related RDT&E PEs: 0401130F
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Pylon Stub</i>												
A Kits												
Recurring												
Pylon Stub:INSTALL KITS Group A (Active)	93 / 47.287	1 / 0.424	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	94 / 47.711
Pylon Stub:INSTALL KITS Group A (Guard)	13 / 6.774	13 / 5.515	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 12.289
Pylon Stub:INSTALL KITS Group A (Reserve)	7 / 3.371	3 / 1.273	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 4.644
<i>Subtotal: Recurring</i>	- / 57.432	- / 7.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 64.644
<i>Subtotal: Pylon Stub</i>	- / 57.432	- / 7.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 64.644
<i>Subtotal: Procurement, All Modification Items</i>	- / 57.432	- / 7.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 64.644
Support (All Modification Items)												
PMA - Other Gov't Costs	- / -	- / 0.509	- / 0.537	- / 5.000	- / -	- / 5.000	- / 0.416	- / -	- / -	- / -	- / -	- / 6.462
OTHER GOVT	- / 0.185	- / 0.988	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.173
<i>Subtotal: Support</i>	- / 0.185	- / 1.497	- / 0.537	- / 5.000	- / -	- / 5.000	- / 0.416	- / -	- / -	- / -	- / -	- / 7.635
Installation												
<i>Modification Item 1 of 1: Pylon Stub</i>	56 / 12.652	18 / -	13 / 3.174	25 / 6.607	- / -	25 / 6.607	18 / 4.645	- / -	- / -	- / -	- / -	130 / 27.078
<i>Subtotal: Installation</i>	56 / 12.652	18 / -	13 / 3.174	25 / 6.607	- / -	25 / 6.607	18 / 4.645	- / -	- / -	- / -	- / -	130 / 27.078
Total												
Total Cost (Procurement + Support + Installation)	70.269	8.709	3.711	11.607	-	11.607	5.061	-	-	-	-	99.357

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 2000 / Pylon Stub FFLZ, FF, Translating Fairing

Modification Item 1 of 1: Pylon Stub

Manufacturer Information

Manufacturer Name: The Boeing Company				Manufacturer Location: Long Beach, CA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 18			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Apr 2015						
Delivery Dates	Oct 2016						

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	56 / 12.652	18 / 0.000	13 / 3.174	25 / 6.607	- / -	25 / 6.607	1 / 0.258	- / -	- / -	- / -	- / -	113 / 22.691
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	17 / 4.387	- / -	- / -	- / -	- / -	17 / 4.387
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	56 / 12.652	18 / -	13 / 3.174	25 / 6.607	- / -	25 / 6.607	18 / 4.645	- / -	- / -	- / -	- / -	130 / 27.078

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	56	4	5	4	5	3	3	3	4	6	6	7	6	4	5	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	48	8	4	5	4	5	3	3	3	4	6	6	7	6	4	5	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3					P-1 Line Item Number / Title: C01700 / C-17A					Modification Number / Title: 1508 / IFF GATM Mode 5		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	31.811	33.335	27.723	6.303	-	6.303	61.785	11.168	3.887	3.080	9.864	188.956
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	31.811	33.335	27.723	6.303	-	6.303	61.785	11.168	3.887	3.080	9.864	188.956
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	31.811	33.335	27.723	6.303	-	6.303	61.785	11.168	3.887	3.080	9.864	188.956

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

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

Description:

This project equips 222 C-17 aircraft with an upgraded identification friend or foe (IFF) system and software upgrades to meet future military and civil transponder-reporting requirements. Concerns regarding the capabilities and vulnerabilities of existing military secure, encrypted IFF systems resulted in an AMC requirement for an upgraded Mode 5 IFF capability.

This requirement is documented in a Joint Requirements Oversight Council (JROC) approved operational requirements document (ORD). The project upgrades the current APX-119 and KIV-77 (crypto unit) line-replaceable units (LRUs) to provide the Mode 5 capability. The full capabilities of the digital IFF will be integrated in the C-17 to provide the enhanced Mode 5 capabilities.

This project also replaces the mission computer/core integrated processor (MC/CIP). A form, fit, and function CIP replacement at the LRU level replaces the existing CIP for Block 17 aircraft. The CIP replacement will be operationally transparent to the aircrew. The CIP replacement shall provide processing throughput improvement and added memory capabilities to support future capability upgrade via block software.

IFF GATM Mode 5 Kit consists of:

- Faceplate and Cable (222 each)
- Replacement Core Integrated Processor/Modernized Replacement Core Integrated Processor (RCIP/MRCIP) (195 each) and associated software
- Legacy Central Aural Warning System (LCAWS) (125 each)
- Environmental Control System Controller: Display Controller Unit (ECSC: DCU) 281/A (110 each)
- Warning and Caution Computer (WCC) (110 each)
- Aero-Propulsion Data Management Computer (APDMC) (110 each)

The number of LRUs required per kit will vary depending on the OBIGGs configuration of the aircraft.

- FY15 - 9 of 38 kits require all six LRUs
- FY16 - 19 of 33 kits require all six LRUs
- FY18 - 62 of 66 kits require all six LRUs
- FY19 - 0 of 11 kits require all six LRUs

The project includes procuring Government Furnished Equipment of APX-119 IFF Transponders.

This modification effort is part of the C-17 Common Configuration Program.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 1508 / IFF GATM Mode 5

Installs are performed at Boeing Support Systems-San Antonio and at Warner Robins Air Logistics Complex.

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

Projected allocations by component are subject to total force mission priorities and aircraft availability.

Milestone/Development Status
Development Complete

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	33.335	27.723	6.303	-	6.303	55.905	6.321	2.401	1.668
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	5.880	4.847	1.486	1.412
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	33.335	27.723	6.303	-	6.303	61.785	11.168	3.887	3.080

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3					P-1 Line Item Number / Title: C01700 / C-17A					Modification Number / Title: 1508 / IFF GATM Mode 5			
Models of Systems Affected: C-17				Modification Type: Capability Improvement				Related RDT&E PEs: 0401130F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0401130F	- / 27.411	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.411	
Procurement													
Modification Item 1 of 1: Mode 5													
B Kits													
Recurring													
Mode 5:EQUIPMENT Group B (Active)	53 / 19.778	38 / 14.464	33 / 22.382	- / -	- / -	- / -	52 / 47.976	- / -	- / -	- / -	- / -	176 / 104.600	
Mode 5:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	14 / 5.880	11 / 4.847	2 / 0.926	2 / 0.972	- / -	29 / 12.625	
Mode 5:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 8.679	17 / 8.679	
Subtotal: Recurring	- / 19.778	- / 14.464	- / 22.382	- / -	- / -	- / -	- / 53.856	- / 4.847	- / 0.926	- / 0.972	- / 8.679	- / 125.904	
Subtotal: Mode 5	- / 19.778	- / 14.464	- / 22.382	- / -	- / -	- / -	- / 53.856	- / 4.847	- / 0.926	- / 0.972	- / 8.679	- / 125.904	
Subtotal: Procurement, All Modification Items	- / 19.778	- / 14.464	- / 22.382	- / -	- / -	- / -	- / 53.856	- / 4.847	- / 0.926	- / 0.972	- / 8.679	- / 125.904	
Support (All Modification Items)													
Change Orders	- / -	- / 0.469	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.896	- / -	- / 1.365	
SIM/TRAINER	- / -	- / 0.253	- / 0.545	- / 3.600	- / -	- / 3.600	- / 0.300	- / 3.915	- / 0.276	- / 0.300	- / 0.300	- / 9.489	
PMA - Other Gov't Costs	- / -	- / 1.028	- / 3.150	- / 1.145	- / -	- / 1.145	- / 5.052	- / 1.041	- / -	- / 0.427	- / -	- / 11.843	
GFP	- / 5.957	- / 1.300	- / 1.646	- / 0.513	- / -	- / 0.513	- / 1.012	- / -	- / -	- / -	- / -	- / 10.428	
OTHER GOVT	- / 2.857	- / 15.500	- / -	- / 0.045	- / -	- / 0.045	- / 0.045	- / 0.045	- / 0.045	- / 0.045	- / 0.045	- / 18.627	
Subtotal: Support	- / 8.814	- / 18.550	- / 5.341	- / 5.303	- / -	- / 5.303	- / 6.409	- / 5.001	- / 0.321	- / 1.668	- / 0.345	- / 51.752	
Installation													
Modification Item 1 of 1: Mode 5	2 / 3.219	- / 0.321	26 / -	25 / 1.000	- / -	25 / 1.000	38 / 1.520	33 / 1.320	66 / 2.640	11 / 0.440	21 / 0.840	222 / 11.300	
Subtotal: Installation	2 / 3.219	- / 0.321	26 / -	25 / 1.000	- / -	25 / 1.000	38 / 1.520	33 / 1.320	66 / 2.640	11 / 0.440	21 / 0.840	222 / 11.300	
Total													
Total Cost (Procurement + Support + Installation)	31.811	33.335	27.723	6.303	-	6.303	61.785	11.168	3.887	3.080	9.864	188.956	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 1508 / IFF GATM Mode 5

Modification Item 1 of 1: Mode 5

Manufacturer Information

Manufacturer Name: The Boeing Company	Manufacturer Location: Long Beach, CA
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Mar 2017		Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates	Mar 2016	Mar 2018		Mar 2019	Mar 2020	Mar 2021	Mar 2022

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 1.609	- / 0.160	13 / 0.000	13 / 0.520	- / -	13 / 0.520	- / -	- / -	- / -	- / -	- / -	27 / 2.289
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.760	- / -	- / -	- / -	- / -	19 / 0.760
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.680	- / -	- / -	- / -	17 / 0.680
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 1.320	- / -	- / -	33 / 1.320
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.240	- / -	6 / 0.240
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.040	1 / 0.040
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.040	1 / 0.040
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.280	7 / 0.280
Total	1 / 1.609	- / 0.160	13 / -	13 / 0.520	- / -	13 / 0.520	19 / 0.760	17 / 0.680	33 / 1.320	6 / 0.240	9 / 0.360	111 / 5.649

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	4	4	4	1	4	4	4	1	-	-	10	9	6	1	6	4	8	8	8	9	2	2	1	1	9	111
Out	1	-	-	-	-	-	4	4	4	1	4	4	4	1	-	-	10	9	6	1	6	4	8	8	8	9	2	2	1	10	111

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 1.610	- / 0.161	13 / 0.000	12 / 0.480	- / -	12 / 0.480	- / -	- / -	- / -	- / -	- / -	26 / 2.251
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.760	- / -	- / -	- / -	- / -	19 / 0.760

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 1508 / IFF GATM Mode 5

Modification Item 1 of 1: Mode 5

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.640	- / -	- / -	- / -	16 / 0.640
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 1.320	- / -	- / -	33 / 1.320
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.200	- / -	5 / 0.200
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.040	1 / 0.040
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.040	1 / 0.040
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.400	10 / 0.400
Total	1 / 1.610	- / 0.161	13 / -	12 / 0.480	- / -	12 / 0.480	19 / 0.760	16 / 0.640	33 / 1.320	5 / 0.200	12 / 0.480	111 / 5.651

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	4	4	4	1	3	3	3	3	-	-	9	10	6	1	6	3	8	8	8	9	2	1	1	1	12	111
Out	1	-	-	-	-	-	4	4	4	1	3	3	3	3	-	-	9	10	6	1	6	3	8	8	8	9	2	1	1	13	111

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C02100 / C-21
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.103	0.264	9.860	5.439	-	5.439	8.195	11.075	0.218	0.222	-	35.376
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.103	0.264	9.860	5.439	-	5.439	8.195	11.075	0.218	0.222	-	35.376
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.103	0.264	9.860	5.439	-	5.439	8.195	11.075	0.218	0.222	-	35.376

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

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

Description:

This line item funds low-cost modifications and service bulletins for 19 C-21A aircraft, commercial equivalent to the Learjet 35. The C-21A aircraft is a twin-turbofan engine aircraft used for cargo and passenger airlift over medium ranges. The aircraft has a designed service life of 20,000 hours with an average of 4,000 hours remaining. Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration certification while improving flight safety, reliability, and maintainability.

All (19) C-21A aircraft will receive an avionics upgrade, which replaces obsolete/antiquated systems with modern digital equipment and installs Automatic Dependent Surveillance-Broadcast/Transponder Mode 5 capabilities to meet FAA global mandates.

Funding for this exhibit contained in PE 0401314F.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C02100 / C-21

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.100	- / 0.154	- / -	- / 0.143	- / -	- / 0.143
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.003	- / 0.110	- / -	- / 0.110	- / -	- / 0.110
P-3a	1100 / Avionics Upgrades and FAA Mandates (Capability Improvement)			- / -	- / -	- / 9.860	- / 5.186	- / -	- / 5.186
P-40	Total Gross/Weapon System Cost			- / 0.103	- / 0.264	- / 9.860	- / 5.439	- / -	- / 5.439

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.133	- / 0.104	- / 0.108	- / 0.111	- / -	- / 0.853
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.110	- / 0.110	- / 0.110	- / 0.111	- / -	- / 0.664
P-3a	1100 / Avionics Upgrades and FAA Mandates (Capability Improvement)			- / 7.952	- / 10.861	- / -	- / -	- / -	- / 33.859
P-40	Total Gross/Weapon System Cost			- / 8.195	- / 11.075	- / 0.218	- / 0.222	- / -	- / 35.376

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

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

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

Justification:

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3				P-1 Line Item Number / Title: C02100 / C-21				Modification Number / Title: 1100 / Avionics Upgrades and FAA Mandates				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	9.860	5.186	-	5.186	7.952	10.861	-	-	-	33.859
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	9.860	5.186	-	5.186	7.952	10.861	-	-	-	33.859
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	9.860	5.186	-	5.186	7.952	10.861	-	-	-	33.859
<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:

C-21 is an FAA-certified aircraft. This modification replaces the obsolete analog weather radar with modern digital radar; replaces unsupportable flight management system; replaces antiquated and unsupportable Global Positioning Systems (GPS); replaces cockpit voice recorder (CVR) and flight data recorder (FDR) to meet FAA minimum requirements; installs Automatic Dependent Surveillance-Broadcast (ADS-B) capability and Transponder Mode 5 capability to meet FAA compliance requirements.

Milestone/Development Status

Commercial-off-the-shelf items with non-recurring engineering for integration

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3					P-1 Line Item Number / Title: C02100 / C-21					Modification Number / Title: 1100 / Avionics Upgrades and FAA Mandates			
Models of Systems Affected: C-21A				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Avionics Upgrade</i>													
A Kits													
Recurring													
Avionics Upgrade:INSTALL KITS Group A (Active)													
	- / -	- / -	3 / 0.750	4 / 1.000	- / -	4 / 1.000	9 / 2.200	3 / 0.750	- / -	- / -	- / -	19 / 4.700	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / 0.750	- / 1.000	- / -	- / 1.000	- / 2.200	- / 0.750	- / -	- / -	- / -	- / 4.700	
B Kits													
Recurring													
Avionics Upgrade:EQUIPMENT Group B (Active)													
	- / -	- / -	3 / 1.050	4 / 1.400	- / -	4 / 1.400	9 / 3.000	3 / 1.050	- / -	- / -	- / -	19 / 6.500	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / 1.050	- / 1.400	- / -	- / 1.400	- / 3.000	- / 1.050	- / -	- / -	- / -	- / 6.500	
<i>Subtotal: Avionics Upgrade</i>													
	- / -	- / -	- / 1.800	- / 2.400	- / -	- / 2.400	- / 5.200	- / 1.800	- / -	- / -	- / -	- / 11.200	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / -	- / -	- / 1.800	- / 2.400	- / -	- / 2.400	- / 5.200	- / 1.800	- / -	- / -	- / -	- / 11.200	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING													
	- / -	- / -	- / 4.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.900	
Data													
	- / -	- / -	- / 0.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.360	
PMA - Other Gov't Costs													
	- / -	- / -	- / 0.100	- / 0.086	- / -	- / 0.086	- / 0.052	- / 0.061	- / -	- / -	- / -	- / 0.299	
<i>Subtotal: Support</i>													
	- / -	- / -	- / 5.360	- / 0.086	- / -	- / 0.086	- / 0.052	- / 0.061	- / -	- / -	- / -	- / 5.559	
Installation													
<i>Modification Item 1 of 1: Avionics Upgrade</i>													
	- / -	- / -	3 / 2.700	3 / 2.700	- / -	3 / 2.700	3 / 2.700	10 / 9.000	- / -	- / -	- / -	19 / 17.100	
<i>Subtotal: Installation</i>													
	- / -	- / -	3 / 2.700	3 / 2.700	- / -	3 / 2.700	3 / 2.700	10 / 9.000	- / -	- / -	- / -	19 / 17.100	
Total													
Total Cost (Procurement + Support + Installation)													
	-	-	9.860	5.186	-	5.186	7.952	10.861	-	-	-	33.859	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C02100 / C-21	Modification Number / Title: 1100 / Avionics Upgrades and FAA Mandates

Modification Item 1 of 1: Avionics Upgrade

Manufacturer Information

Manufacturer Name: DTS Aviation Services	Manufacturer Location: Fort Worth, Texas
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 1

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019		
Delivery Dates		Feb 2016	Feb 2017	Feb 2018	Feb 2019		

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	3 / 2.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.700
FY 2017	- / -	- / -	- / -	3 / 2.700	- / -	3 / 2.700	1 / 0.900	- / -	- / -	- / -	- / -	4 / 3.600
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.800	7 / 6.300	- / -	- / -	- / -	9 / 8.100
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.700	- / -	- / -	- / -	3 / 2.700
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	3 / 2.700	3 / 2.700	- / -	3 / 2.700	3 / 2.700	10 / 9.000	- / -	- / -	- / -	19 / 17.100

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	1	2	-	1	1	1	-	1	1	1	-	3	4	3	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	1	2	-	1	1	1	-	1	1	1	-	3	4	3	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C03200 / C-32A
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	61.705	8.767	39.464	35.235	-	35.235	19.597	3.903	1.932	1.968	-	172.571
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	61.705	8.767	39.464	35.235	-	35.235	19.597	3.903	1.932	1.968	-	172.571
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	61.705	8.767	39.464	35.235	-	35.235	19.597	3.903	1.932	1.968	-	172.571

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

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

Description:

This line item funds all aircraft modifications for (4) C-32A aircraft, a commercial derivative of the Boeing 757-200. The C-32A is a twin-engine, turbofan aircraft used to transport high ranking government officials worldwide. The design service life is 30 years with an average of 16 years remaining.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration certification while improving flight safety, reliability, and maintainability.

Funding for this exhibit is contained in PE 0401314F.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.767	39.464	35.235	-	35.235	19.597	3.903	1.932
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.767	39.464	35.235	-	35.235	19.597	3.903	1.932

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C03200 / C-32A

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	1110 / Nitrogen Generation System (Other)			- / 22.925	- / 2.971	- / 1.000	- / -	- / -	- / -
P-40a***	1117 / CNS/ATM Compliance (Capability Improvement)			- / -	- / -	- / 1.000	- / 3.965	- / -	- / 3.965
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.005	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.005
P-40a***	99999SG / 99999SG - Service Bulletins - C-32B (Capability Improvement)			- / 0.932	- / 0.928	- / 0.935	- / 1.000	- / -	- / 1.000
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.005	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.005
P-40a***	99999XG / 99999XG - Low Cost Mods - C-32B (Capability Improvement)			- / 0.838	- / 0.858	- / 0.885	- / 0.837	- / -	- / 0.837
P-3a	1116 / WIDEBAND SATCOM (Capability Improvement)			- / 37.000	- / 4.000	- / 35.634	- / 29.423	- / -	- / 29.423
P-40	Total Gross/Weapon System Cost			- / 61.705	- / 8.767	- / 39.464	- / 35.235	- / -	- / 35.235

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	1110 / Nitrogen Generation System (Other)			- / -	- / -	- / -	- / -	- / -	- / 26.896
P-40a***	1117 / CNS/ATM Compliance (Capability Improvement)			- / 2.976	- / 1.984	- / -	- / -	- / -	- / 9.925
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.005	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.040
P-40a***	99999SG / 99999SG - Service Bulletins - C-32B (Capability Improvement)			- / 1.000	- / 1.000	- / 1.000	- / 1.000	- / -	- / 7.795
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.005	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.040
P-40a***	99999XG / 99999XG - Low Cost Mods - C-32B (Capability Improvement)			- / 0.874	- / 0.909	- / 0.922	- / 0.958	- / -	- / 7.081
P-3a	1116 / WIDEBAND SATCOM (Capability Improvement)			- / 14.737	- / -	- / -	- / -	- / -	- / 120.794
P-40	Total Gross/Weapon System Cost			- / 19.597	- / 3.903	- / 1.932	- / 1.968	- / -	- / 172.571

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

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

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

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3				P-1 Line Item Number / Title: C03200 / C-32A						Modification Number / Title: 1116 / WIDEBAND SATCOM		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	37.000	4.000	35.634	29.423	-	29.423	14.737	-	-	-	-	120.794
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	37.000	4.000	35.634	29.423	-	29.423	14.737	-	-	-	-	120.794
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	37.000	4.000	35.634	29.423	-	29.423	14.737	-	-	-	-	120.794

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

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

Description:

This modification installs commercial wide-band and protected Satellite Communications (SATCOM)/infrastructure and corrects communications system obsolescence issues on (4) Air Force C-32 aircraft. The C-32 is a commercial derivative of the Boeing 757-200 Extended Range Aircraft. Air Force C-32s maintain Federal Aviation Administration Certification. This modification provides national senior leaders with the ability to execute business enterprise and Command and Control functions globally while airborne. It maintains senior leader access to Top Secret /Sensitive Compartmented Information (TS/SCI) voice/data/video networks (Crisis Management System/Joint Worldwide Intelligence Communications System) and Unclassified, Secret, and TS/SCI voice/data/video networks enabling them to be able to conduct time critical targeting of high value targets, as required, and crisis actions while airborne.

Milestone/Development Status

Commercial-off-the-shelf item with non-recurring engineering for integration

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.000	35.634	29.423	-	29.423	14.737	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.000	35.634	29.423	-	29.423	14.737	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3					P-1 Line Item Number / Title: C03200 / C-32A					Modification Number / Title: 1116 / WIDEBAND SATCOM			
Models of Systems Affected: C-32A				Modification Type: Capability Improvement				Related RDT&E PEs: 0401314F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 2: Protected</i>													
A Kits													
Recurring													
Protected:INSTALL KITS Group A (Active)	0 / 0.000	- / -	2 / 7.000	- / -	- / -	- / -	2 / 7.000	- / -	- / -	- / -	- / -	4 / 14.000	
Protected:INSTALL KITS Group A (Guard)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Protected:INSTALL KITS Group A (Reserve)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 7.000	- / -	- / -	- / -	- / 7.000	- / -	- / -	- / -	- / -	- / 14.000	
<i>Subtotal: Protected</i>	- / 0.000	- / -	- / 7.000	- / -	- / -	- / -	- / 7.000	- / -	- / -	- / -	- / -	- / 14.000	
<i>Modification Item 2 of 2: Wideband</i>													
A Kits													
Recurring													
Wideband:INSTALL KITS Group A (Active)	- / -	- / -	2 / 12.650	2 / 13.000	- / -	2 / 13.000	- / -	- / -	- / -	- / -	- / -	4 / 25.650	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 12.650	- / 13.000	- / -	- / 13.000	- / -	- / -	- / -	- / -	- / -	- / 25.650	
B Kits													
Recurring													
Wideband:EQUIPMENT Group B (Active)	3 / 21.750	- / -	1 / 7.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 29.000	
<i>Subtotal: Recurring</i>	- / 21.750	- / -	- / 7.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.000	
<i>Subtotal: Wideband</i>	- / 21.750	- / -	- / 19.900	- / 13.000	- / -	- / 13.000	- / -	- / -	- / -	- / -	- / -	- / 54.650	
<i>Subtotal: Procurement, All Modification Items</i>	- / 21.750	- / -	- / 26.900	- / 13.000	- / -	- / 13.000	- / 7.000	- / -	- / -	- / -	- / -	- / 68.650	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 15.250	- / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.250	
Data	- / -	- / -	- / -	- / 10.673	- / -	- / 10.673	- / 10.487	- / -	- / -	- / -	- / -	- / 11.160	
PMA - Other Gov't Costs	- / -	- / -	- / 10.234	- / 10.250	- / -	- / 10.250	- / 10.250	- / -	- / -	- / -	- / -	- / 10.734	
<i>Subtotal: Support</i>	- / 15.250	- / 4.000	- / 10.234	- / 10.923	- / -	- / 10.923	- / 10.737	- / -	- / -	- / -	- / -	- / 21.144	
Installation													
<i>Modification Item 1 of 2: Protected</i>	- / -	- / -	- / -	2 / 7.000	- / -	2 / 7.000	2 / 7.000	- / -	- / -	- / -	- / -	4 / 14.000	
<i>Modification Item 2 of 2: Wideband</i>	- / -	- / -	2 / 8.500	2 / 8.500	- / -	2 / 8.500	- / -	- / -	- / -	- / -	- / -	4 / 17.000	
<i>Subtotal: Installation</i>	- / -	- / -	2 / 8.500	4 / 15.500	- / -	4 / 15.500	2 / 7.000	- / -	- / -	- / -	- / -	8 / 31.000	
Total													
Total Cost (Procurement + Support + Installation)	37.000	4.000	35.634	29.423	-	29.423	14.737	-	-	-	-	120.794	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C03200 / C-32A	Modification Number / Title: 1116 / WIDEBAND SATCOM

Modification Item 1 of 2: Protected

Manufacturer Information

Manufacturer Name: L3 Communications	Manufacturer Location: Greenville, TX
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Nov 2015		Nov 2017			
Delivery Dates		Feb 2016		Feb 2018			

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	2 / 7.000	- / -	2 / 7.000	- / -	- / -	- / -	- / -	- / -	2 / 7.000
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	2 / 7.000	- / -	- / -	- / -	- / -	2 / 7.000
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 7.000	- / -	2 / 7.000	2 / 7.000	- / -	- / -	- / -	- / -	4 / 14.000

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	0	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Out	0	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C03200 / C-32A	Modification Number / Title: 1116 / WIDEBAND SATCOM

Modification Item 2 of 2: Wideband

Manufacturer Information

Manufacturer Name: L3 Communications	Manufacturer Location: Greenville, TX
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Nov 2015	Nov 2016				
Delivery Dates		Feb 2016	Feb 2017				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	2 / 8.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 8.500
FY 2017	- / -	- / -	- / -	2 / 8.500	- / -	2 / 8.500	- / -	- / -	- / -	- / -	- / -	2 / 8.500
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 8.500	2 / 8.500	- / -	2 / 8.500	- / -	- / -	- / -	- / -	- / -	4 / 17.000

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C03700 / C-37A
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	54.952	18.457	10.861	5.004	-	5.004	10.638	5.775	2.936	0.463	-	109.086
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	54.952	18.457	10.861	5.004	-	5.004	10.638	5.775	2.936	0.463	-	109.086
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	54.952	18.457	10.861	5.004	-	5.004	10.638	5.775	2.936	0.463	-	109.086

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

Description:

This line item funds modifications to (12) C-37A and C-37B aircraft, commercial equivalent Gulfstream 5 and Gulfstream 550. The C-37A/B is a twin-engine jet transport designed to transport high-ranking government officials worldwide. The designed service life is 40,000 hours with an average of 30,000 hours remaining.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration (FAA) certification while improving flight safety, reliability, and maintainability.

The FY 2017 funding request was reduced by \$7.6 million to account for the availability of prior year execution balances.

Funding for this exhibit is contained in PE 0401314F.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C03700 / C-37A

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	1117 / WIDEBAND SATCOM (Capability Improvement)			- / 54.500	- / 18.000	- / 10.000	- / -	- / -	- / -
P-40a***	1118 / CNS/ATM Compliance (Capability Improvement)			- / -	- / -	- / 0.500	- / 4.675	- / -	- / 4.675
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.100
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.352	- / 0.357	- / 0.261	- / 0.229	- / -	- / 0.229
P-40	Total Gross/Weapon System Cost			- / 54.952	- / 18.457	- / 10.861	- / 5.004	- / -	- / 5.004

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	1117 / WIDEBAND SATCOM (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 82.500
P-40a***	1118 / CNS/ATM Compliance (Capability Improvement)			- / 10.195	- / 5.353	- / 2.478	- / -	- / -	- / 23.201
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.800
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.343	- / 0.322	- / 0.358	- / 0.363	- / -	- / 2.585
P-40	Total Gross/Weapon System Cost			- / 10.638	- / 5.775	- / 2.936	- / 0.463	- / -	- / 109.086

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

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

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft	P-1 Line Item Number / Title: GLID00 / GLIDER Mods
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0804748F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3.064	1.132	0.134	0.394	-	0.394	0.136	0.138	0.139	0.142	-	5.279
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3.064	1.132	0.134	0.394	-	0.394	0.136	0.138	0.139	0.142	-	5.279
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3.064	1.132	0.134	0.394	-	0.394	0.136	0.138	0.139	0.142	-	5.279

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

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

Description:

This line item funds modifications to the TG-15 and TG-16 gliders, T-41, T-51, T-53 and UV-18 aircraft used at the United States Air Force Academy. Among gliders there are two TG-15A aircraft with a design service life of 6,000 hours, three TG-15B aircraft with a design service life of 6,000 hours, and 19 TG-16A aircraft with a design service life of 12,000. Powered flight consists of four T-41D aircraft with a design service life of 60,000 hours, three T-51A aircraft with a design service life of 60,000 hours and 24 T-53A aircraft with a design service life of 12,000 hours. To support parachute jumping there are three UV-18B aircraft with a design service life of 40,000 hours. The primary effort in FY17 is Low Cost Modifications, which includes various AF Academy simulator system procurements and FAA Service Bulletin and Air Worthiness Directives.

Funding for this exhibit contained in PE 0804748F.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft

P-1 Line Item Number / Title:
GLID00 / GLIDER Mods

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0804748F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	99999X / Low Cost Modifications (Reliability & Maintainability)			- / 3.064	- / 1.132	- / 0.134	- / 0.394	- / -	- / 0.394
P-40	Total Gross/Weapon System Cost			- / 3.064	- / 1.132	- / 0.134	- / 0.394	- / -	- / 0.394

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	99999X / Low Cost Modifications (Reliability & Maintainability)			- / 0.136	- / 0.138	- / 0.139	- / 0.142	- / -	- / 5.279
P-40	Total Gross/Weapon System Cost			- / 0.136	- / 0.138	- / 0.139	- / 0.142	- / -	- / 5.279

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

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

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft	P-1 Line Item Number / Title: JPAT00 / T-6
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0804740F	Other Related Program Elements: 0604233F
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Line Item MDAP/MAIS Code: 560	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	120.084	14.484	14.968	12.765	-	12.765	51.127	26.035	26.486	26.975	21.255	314.179
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	120.084	14.484	14.968	12.765	-	12.765	51.127	26.035	26.486	26.975	21.255	314.179
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	120.084	14.484	14.968	12.765	-	12.765	51.127	26.035	26.486	26.975	21.255	314.179

(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 Joint Primary Aircraft Training System (JPATS) T-6 replaces the USAF T-37B and USN T-34C training aircraft and their associated ground based training systems. The JPATS T-6 aircraft provides significant improvements over the aircraft it replaced, including a 0/0 ejection seat which accommodates a larger anthropometric pilot population, a pressurized cockpit, gravitational-force (g-force) strain reduction capabilities, and increased birdstrike protection. There are currently 445 T-6A aircraft in the Air Force inventory. The aircraft were designed with a 24 year service life. Remaining service life is up to 21 years from the final delivery in May 2010. The primary modifications in FY2017 include Aircrew Training Device (ATD) Modernization, Canopy Fracture Initiation System, and Low Cost Modifications. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

The FY2017 funding request was reduced by \$.293 million to account for the availability of prior year execution balances.

Funding for this exhibit contained in PE 0804740F.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.484	14.968	12.765	-	12.765	51.127	26.035	26.486
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.484	14.968	12.765	-	12.765	51.127	26.035	26.486

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft

P-1 Line Item Number / Title:
JPAT00 / T-6

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0804740F **Other Related Program Elements:** 0604233F

Line Item MDAP/MAIS Code: 560 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	37222 / Landing Gear Shimmy (Reliability & Maintainability)			- / 1.180	- / -	- / -	- / -	- / -	- / -
P-40a***	37224 / Power Control Lever (Reliability & Maintainability)			- / 5.303	- / -	- / -	- / -	- / -	- / -
P-40a***	37225 / OBOGS Low Pressure Switch and Concentrator (Reliability & Maintainability)			- / 2.089	- / -	- / -	- / -	- / -	- / -
P-40a***	37226 / Landing Gear Door Spring Housing, Bellcrank & Pushrods (Reliability & Maintainability)			- / 4.795	- / -	- / -	- / -	- / -	- / -
P-40a***	37227 / IDARS-MFOQA (Safety)			- / 3.906	- / -	- / -	- / -	- / -	- / -
P-40a***	37229 / ATD Visual System Retrofit (Capability Improvement)			- / 22.414	- / 11.964	- / -	- / -	- / -	- / -
P-40a***	9847 / Avionics Obsolesence (Reliability & Maintainability)			- / 18.153	- / -	- / -	- / -	- / -	- / -
P-40a***	9857 / Traffic Advisory System (Capability Improvement)			- / 29.580	- / -	- / -	- / -	- / -	- / -
P-40a***	9871 / COCKPIT UPGRADES (Capability Improvement)			- / 6.030	- / -	- / -	- / -	- / -	- / -
P-40a***	9873 / Canopy Fracture Initiation System (Reliability & Maintainability)			- / -	- / 1.466	- / 0.775	- / 0.277	- / -	- / 0.277
P-40a***	9875 / LANDING GEAR HANDLE REDESIGN (Reliability & Maintainability)			- / 2.837	- / -	- / -	- / -	- / -	- / -
P-40a***	9876 / AIRFRAME STRUCTURAL IMPROVEMENTS (Reliability & Maintainability)			- / 16.370	- / -	- / -	- / -	- / -	- / -
P-40a***	9877 / Avionics Upgrades FAA Compliance (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 7.427	- / 1.054	- / 1.577	- / 1.899	- / -	- / 1.899
P-3a	9878 / Aircrew Training Device (ATD) Modernization (Capability Improvement)			- / -	- / -	- / 12.616	- / 10.589	- / -	- / 10.589
P-40	Total Gross/Weapon System Cost			- / 120.084	- / 14.484	- / 14.968	- / 12.765	- / -	- / 12.765

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	37222 / Landing Gear Shimmy (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 1.180
P-40a***	37224 / Power Control Lever (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 5.303
P-40a***	37225 / OBOGS Low Pressure Switch and Concentrator (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 2.089
P-40a***	37226 / Landing Gear Door Spring Housing, Bellcrank & Pushrods (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 4.795
P-40a***	37227 / IDARS-MFOQA (Safety)			- / -	- / -	- / -	- / -	- / -	- / 3.906
P-40a***	37229 / ATD Visual System Retrofit (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 34.378
P-40a***	9847 / Avionics Obsolesence (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 18.153
P-40a***	9857 / Traffic Advisory System (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 29.580
P-40a***	9871 / COCKPIT UPGRADES (Capability Improvement)			- / -	- / -	- / -	- / 20.947	- / 13.707	- / 40.684
P-40a***	9873 / Canopy Fracture Initiation System (Reliability & Maintainability)			- / 0.201	- / 0.110	- / -	- / -	- / -	- / 2.829

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft

P-1 Line Item Number / Title:
JPAT00 / T-6

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0804740F **Other Related Program Elements:** 0604233F

Line Item MDAP/MAIS Code: 560 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	9875 / LANDING GEAR HANDLE REDESIGN (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 2.837
P-40a***	9876 / AIRFRAME STRUCTURAL IMPROVEMENTS (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 16.370
P-40a***	9877 / Avionics Upgrades FAA Compliance (Reliability & Maintainability)			- / 36.613	- / 21.727	- / 10.450	- / -	- / -	- / 68.790
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 1.770	- / 1.639	- / 1.870	- / 0.624	- / -	- / 17.860
P-3a	9878 / Aircrew Training Device (ATD) Modernization (Capability Improvement)			- / 12.543	- / 2.559	- / 14.166	- / 5.404	- / 7.548	- / 65.425
P-40	Total Gross/Weapon System Cost			- / 51.127	- / 26.035	- / 26.486	- / 26.975	- / 21.255	- / 314.179

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

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

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

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4				P-1 Line Item Number / Title: JPAT00 / T-6			Modification Number / Title: 9878 / Aircrew Training Device (ATD) Modernization				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	12.616	10.589	-	10.589	12.543	2.559	14.166	5.404	7.548	65.425
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	12.616	10.589	-	10.589	12.543	2.559	14.166	5.404	7.548	65.425
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	12.616	10.589	-	10.589	12.543	2.559	14.166	5.404	7.548	65.425
<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:

Due to multiple system hardware and software obsolescence issues, many elements of the legacy T-6A/B Joint Primary Aircraft Pilot Training System (JPATS) Aircrew Training Devices (ATDs) have limited supportability and must be replaced before student training is impacted. These ATD Systems include the Electronic Control Loading System (ECLS), Flight Deck I/O, Aural Cueing System (ACS), Image Generator System (IGS), and Instructor Operating Station (IOS). This mod incorporates the DoD requirement to migrate all ATD Platform Operating Systems to Windows 7 or better. These modifications will improve the reliability, maintainability, and availability (RM&A) of the JPATS ATDs. Mean-Time Between Failure MTBF for the system is currently 2000 hours. The projected MTBF for the system after the modification is 8000 hrs. This fourfold increase in MTBF will provide a significant savings in operational cost.

Milestone/Development Status

No development activity associated with this modification. This effort will require integration engineering for the installation of standard components. No line replaceable units will be required to be developed for this modification.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	12.616	10.589	-	10.589	12.543	2.559	14.166	5.404
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	12.616	10.589	-	10.589	12.543	2.559	14.166	5.404

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: JPAT00 / T-6	Modification Number / Title: 9878 / Aircrew Training Device (ATD) Modernization

Models of Systems Affected: T-6A	Modification Type: Capability Improvement	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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> ATD Modernization												
B Kits												
Recurring												
ATD Modernization:EQUIPMENT Group B (Active)	- / -	- / -	30 / 5.534	60 / 9.413	- / -	60 / 9.413	58 / 10.236	- / 2.340	- / 11.375	- / 4.323	- / 7.548	148 / 50.769
<i>Subtotal: Recurring</i>	- / -	- / -	- / 5.534	- / 9.413	- / -	- / 9.413	- / 10.236	- / 2.340	- / 11.375	- / 4.323	- / 7.548	- / 50.769
<i>Subtotal: ATD Modernization</i>	- / -	- / -	- / 5.534	- / 9.413	- / -	- / 9.413	- / 10.236	- / 2.340	- / 11.375	- / 4.323	- / 7.548	- / 50.769
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 5.534	- / 9.413	- / -	- / 9.413	- / 10.236	- / 2.340	- / 11.375	- / 4.323	- / 7.548	- / 50.769

Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / 0.427	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.427
OTHER GOVT	- / -	- / -	- / 16.474	- / 10.695	- / -	- / 10.695	- / 1.897	- / 0.219	- / 2.791	- / 1.081	- / -	- / 13.157
<i>Subtotal: Support</i>	- / -	- / -	- / 16.901	- / 10.695	- / -	- / 10.695	- / 1.897	- / 0.219	- / 2.791	- / 1.081	- / -	- / 13.584

Installation												
<i>Modification Item 1 of 1:</i> ATD Modernization	- / -	- / -	20 / 0.181	70 / 0.481	- / -	70 / 0.481	58 / 0.410	- / -	- / -	- / -	- / -	148 / 1.072
<i>Subtotal: Installation</i>	- / -	- / -	20 / 0.181	70 / 0.481	- / -	70 / 0.481	58 / 0.410	- / -	- / -	- / -	- / -	148 / 1.072

Total												
Total Cost (Procurement + Support + Installation)	-	-	12.616	10.589	-	10.589	12.543	2.559	14.166	5.404	7.548	65.425

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: JPAT00 / T-6	Modification Number / Title: 9878 / Aircrew Training Device (ATD) Modernization

Modification Item 1 of 1: ATD Modernization

Manufacturer Information

Manufacturer Name: Flight Safety Services	Manufacturer Location: Centennial, CO
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 2

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jun 2016	Oct 2016	Oct 2017			
Delivery Dates		Aug 2016	Dec 2016	Dec 2017			

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	20 / 0.181	10 / 0.069	- / -	10 / 0.069	- / -	- / -	- / -	- / -	- / -	30 / 0.250
FY 2017	- / -	- / -	- / -	60 / 0.412	- / -	60 / 0.412	- / -	- / -	- / -	- / -	- / -	60 / 0.412
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	58 / 0.410	- / -	- / -	- / -	- / -	58 / 0.410
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	20 / 0.181	70 / 0.481	- / -	70 / 0.481	58 / 0.410	- / -	- / -	- / -	- / -	148 / 1.072

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	20	7	21	21	21	7	17	17	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	-	20	7	21	21	21	7	17	17	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft	P-1 Line Item Number / Title: T00100 / T-1
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0804741F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	31.260	7.650	13.106	25.073	-	25.073	39.659	40.388	41.088	41.846	98.896	338.966
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	31.260	7.650	13.106	25.073	-	25.073	39.659	40.388	41.088	41.846	98.896	338.966
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	31.260	7.650	13.106	25.073	-	25.073	39.659	40.388	41.088	41.846	98.896	338.966

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

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

Description:

This line item funds modifications to the T-1A aircraft. The T-1A is a missionized Beech 400A used in the Airlift/Tanker track of USAF Specialized Undergraduate Pilot Training (SUPT) and in Combat Systems Officer (CSO) training for Air Education and Training Command (AETC). It is powered by two Pratt and Whitney JT15D-5 turbofan engines mounted on the aft fuselage producing 2,900 pounds of thrust each. Avionics include Ultra High Frequency (UHF) and Very High Frequency (VHF) radios, Inertial Navigation System (INS), Tactical Air Navigation (TACAN), Airborne Direction Finder (ADF), and two Very High Frequency Omni Range/Instrument Landing System (VOR/ILS). Aircraft modified for CSO training include a Global Positioning System (GPS)-driven synthetic radar and simulated Radar Warning Receiver (RWR) in the right seat flight deck position to be utilized by the student CSO. A second student station and a second instructor station have also been added in the rear of the aircraft. There are 178 T-1A aircraft in the inventory. Design service life is 18,000 flight hours. Based on current usage, that threshold will be reached in approximately 2032. The primary effort in FY2017 is the Avionics Modification.

Funding for this exhibit contained in PE 0804741F.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft **P-1 Line Item Number / Title:**
T00100 / T-1

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0804741F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8996 / COMBAT SYSTEMS OFFICER (CSO) TRAINING (Capability Improvement)			- / 30.205	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)			- / 1.055	- / 0.288	- / 0.296	- / 0.300	- / -	- / 0.300
P-3a	8997 / Avionics Modification (Capability Improvement)			- / -	- / 7.362	- / 12.810	- / 24.773	- / -	- / 24.773
P-40	Total Gross/Weapon System Cost			- / 31.260	- / 7.650	- / 13.106	- / 25.073	- / -	- / 25.073

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8996 / COMBAT SYSTEMS OFFICER (CSO) TRAINING (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 30.205
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)			- / 0.305	- / 0.310	- / 0.316	- / 0.300	- / 0.600	- / 3.770
P-3a	8997 / Avionics Modification (Capability Improvement)			- / 39.354	- / 40.078	- / 40.772	- / 41.546	- / 98.296	- / 304.991
P-40	Total Gross/Weapon System Cost			- / 39.659	- / 40.388	- / 41.088	- / 41.846	- / 98.896	- / 338.966

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

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

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

Justification:

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4				P-1 Line Item Number / Title: T00100 / T-1				Modification Number / Title: 8997 / Avionics Modification				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	7.362	12.810	24.773	-	24.773	39.354	40.078	40.772	41.546	98.296	304.991
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	7.362	12.810	24.773	-	24.773	39.354	40.078	40.772	41.546	98.296	304.991
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	7.362	12.810	24.773	-	24.773	39.354	40.078	40.772	41.546	98.296	304.991
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	0.742	0.745	-	0.745	0.749	0.750	-	-	15.238	18.224
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The justification/approval for the T-1A AMP is documented on an AF Form 1067, signed February 2014 by AETC/A5/8/9. The 1067 was approved by the Air Force Requirement Oversight Council (AFROC) in June 2014, which established the requirement identified above to replace the existing avionics suite throughout the fleet of 178 aircraft, 16 Operational Flight Trainers, and 14 Part Task Trainers.

This effort will require integration engineering for the installation of a current industry standard avionics suite with the legacy aircraft and will be accomplished with \$20M in FY15 and FY16 funds. FY17 funding will support kit proof and modification installations in a total of 15 aircraft.

Contract Award: The award is now projected to award in the 2nd quarter of FY17. The program has been supplemented with additional manpower to ensure it can maintain its current schedule.

Milestone/Development Status

This modification is not a developmental effort. No developmental Line Replaceable Units (LRUs) will be utilized for this modification effort.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4					P-1 Line Item Number / Title: T00100 / T-1					Modification Number / Title: 8997 / Avionics Modification			
Models of Systems Affected: T-1A				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> T-1A Avionics Replacement Kit (ARK)													
A Kits													
Recurring													
T-1A Avionics Replacement Kit (ARK):INSTALL KITS Group A (Active)	- / -	- / -	- / -	15 / 3.990	- / -	15 / 3.990	27 / 7.222	27 / 7.344	25 / 6.969	25 / 6.112	59 / 12.508	178 / 44.145	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 3.990	- / -	- / 3.990	- / 7.222	- / 7.344	- / 6.969	- / 6.112	- / 12.508	- / 44.145	
B Kits													
Recurring													
T-1A Avionics Replacement Kit (ARK):EQUIPMENT Group B (Active)	- / -	- / -	- / -	15 / 13.365	- / -	15 / 13.365	27 / 24.177	27 / 24.588	25 / 23.330	25 / 24.449	59 / 62.362	178 / 172.271	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 13.365	- / -	- / 13.365	- / 24.177	- / 24.588	- / 23.330	- / 24.449	- / 62.362	- / 172.271	
<i>Subtotal: T-1A Avionics Replacement Kit (ARK)</i>	- / -	- / -	- / -	- / 17.355	- / -	- / 17.355	- / 31.399	- / 31.932	- / 30.299	- / 30.561	- / 74.870	- / 216.416	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 17.355	- / -	- / 17.355	- / 31.399	- / 31.932	- / 30.299	- / 30.561	- / 74.870	- / 216.416	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / 5.857	- / 10.918	- / 2.055	- / -	- / 2.055	- / -	- / -	- / -	- / -	- / -	- / 18.830	
Change Orders	- / -	- / -	- / -	- / 0.175	- / -	- / 0.175	- / 0.122	- / 0.141	- / 0.215	- / 0.147	- / 0.947	- / 1.747	
Data	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.731	- / 2.630	- / -	- / 15.361	
PMA - Other Gov't Costs	- / -	- / 1.505	- / 1.892	- / 0.699	- / -	- / 0.699	- / 0.176	- / 0.238	- / 0.492	- / 0.287	- / 2.367	- / 7.656	
<i>Subtotal: Support</i>	- / -	- / 7.362	- / 12.810	- / 2.929	- / -	- / 2.929	- / 0.298	- / 0.379	- / 3.438	- / 3.064	- / 3.314	- / 33.594	
Installation													
<i>Modification Item 1 of 1:</i> T-1A Avionics Replacement Kit (ARK)	- / -	- / -	- / -	15 / 4.489	- / -	15 / 4.489	27 / 7.657	27 / 7.767	25 / 7.035	25 / 7.921	59 / 20.112	178 / 54.981	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	15 / 4.489	- / -	15 / 4.489	27 / 7.657	27 / 7.767	25 / 7.035	25 / 7.921	59 / 20.112	178 / 54.981	
Total													
Total Cost (Procurement + Support + Installation)	-	7.362	12.810	24.773	-	24.773	39.354	40.078	40.772	41.546	98.296	304.991	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T00100 / T-1	Modification Number / Title: 8997 / Avionics Modification

Modification Item 1 of 1: T-1A Avionics Replacement Kit (ARK)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 1

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017	Nov 2017	Nov 2018	Nov 2019	Nov 2020
Delivery Dates			Feb 2017	Dec 2017	Dec 2018	Dec 2019	Dec 2020

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	15 / 4.489	- / -	15 / 4.489	- / -	- / -	- / -	- / -	- / -	15 / 4.489
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	27 / 7.657	- / -	- / -	- / -	- / -	27 / 7.657
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 7.767	- / -	- / -	- / -	27 / 7.767
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 7.035	- / -	- / -	25 / 7.035
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 7.921	- / -	25 / 7.921
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 20.112	59 / 20.112
Total	- / -	- / -	- / -	15 / 4.489	- / -	15 / 4.489	27 / 7.657	27 / 7.767	25 / 7.035	25 / 7.921	59 / 20.112	178 / 54.981

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	6	7	7	7	7	6	7	7	7	6	6	7	6	6	6	6	7	6	59	178
Out	0	-	-	-	-	-	-	-	-	-	-	2	6	7	7	7	7	6	7	7	7	6	6	7	6	6	6	6	7	65	178

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft	P-1 Line Item Number / Title: T03800 / T-38
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0804741F	Other Related Program Elements: 0604233F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	238.721	28.845	30.604	45.090	-	45.090	54.692	97.503	25.795	26.269	6.080	553.599
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	238.721	28.845	30.604	45.090	-	45.090	54.692	97.503	25.795	26.269	6.080	553.599
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	238.721	28.845	30.604	45.090	-	45.090	54.692	97.503	25.795	26.269	6.080	553.599

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

Description:

The T-38 is a twin engine, two seat (tandem), supersonic jet trainer used by Air Education Training Command as an advanced trainer in Specialized Undergraduate Pilot Training. Modifications are budgeted to enhance operational capability while improving flight safety, reliability, and maintainability. There are currently 505 T-38s in the Air Force inventory (53 T-38A, 6 AT-38B and 446 T-38C) with 4 T-38Cs pending removal. T-38s first entered service in 1962 and average over 48 years old. The T-38 was designed with a 7,000 hour service life. Aircraft are now in their third service life and are sustained by upgrades and service life extensions.

Funding for this exhibit contained in PE 0804741F.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft **P-1 Line Item Number / Title:**
T03800 / T-38

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0804741F **Other Related Program Elements:** 0604233F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	6087 / T-38 ESCAPE SYSTEM UPGRADE (Service Life Extension)			- / 158.612	- / -	- / -	- / -	- / -	- / -
P-40a***	6089 / VDTS/SBIS (Capability Improvement)			- / 6.000	- / 0.758	- / -	- / -	- / -	- / -
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)			- / 0.024	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.005
P-40a***	99999X / Low Cost Modifications (Service Life Extension)			- / 0.025	- / 0.006	- / 0.006	- / 0.006	- / -	- / 0.006
P-3a	6088 / Pacer Classic III (Service Life Extension)			- / 74.060	- / 28.076	- / 24.540	- / 31.255	- / -	- / 31.255
P-3a	6090 / T-38C Avionics Post Production Support (APPS) (Reliability & Maintainability)			- / -	- / -	- / 6.053	- / 13.824	- / -	- / 13.824
P-40	Total Gross/Weapon System Cost			- / 238.721	- / 28.845	- / 30.604	- / 45.090	- / -	- / 45.090

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	6087 / T-38 ESCAPE SYSTEM UPGRADE (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / 158.612
P-40a***	6089 / VDTS/SBIS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 6.758
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)			- / 0.005	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.059
P-40a***	99999X / Low Cost Modifications (Service Life Extension)			- / 0.006	- / 0.006	- / 0.006	- / 0.006	- / -	- / 0.067
P-3a	6088 / Pacer Classic III (Service Life Extension)			- / 25.598	- / 22.831	- / 23.227	- / 23.655	- / 6.080	- / 259.322
P-3a	6090 / T-38C Avionics Post Production Support (APPS) (Reliability & Maintainability)			- / 29.083	- / 74.661	- / 2.557	- / 2.603	- / -	- / 128.781
P-40	Total Gross/Weapon System Cost			- / 54.692	- / 97.503	- / 25.795	- / 26.269	- / 6.080	- / 553.599

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6088 / Pacer Classic III
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	74.060	28.076	24.540	31.255	-	31.255	25.598	22.831	23.227	23.655	6.080	259.322
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	74.060	28.076	24.540	31.255	-	31.255	25.598	22.831	23.227	23.655	6.080	259.322
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	74.060	28.076	24.540	31.255	-	31.255	25.598	22.831	23.227	23.655	6.080	259.322

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

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

Description:

Pacer Classic III (PC III) is a depot-level modification program which replaces known life-limited components and ensures structural sustainment of 150 T-38C aircraft which are at high risk of grounding. Timely modifications will ensure continued execution of the Air Education and Training Command (AETC) advanced undergraduate pilot training mission to FY29. PC III will replace major structural components within the aircraft fuselage including major longerons, bulkhead/formers, internal skins and structural floors. These modifications have been categorized as Safety of Flight and determined by HQ Air Force Materiel Command to be required to correct material deficiencies to ensure safety of personnel, systems or equipment. If uncorrected, the hazard will ground the system or equipment, restrict flight or ground operations, or result in unacceptable risk to personnel. The T-38 Program Office manages both the USAF and Euro NATO Joint Jet Pilot Training (ENJJPT) aircraft, PC III structural retrofit. PC III program requirements are documented in Air Force Form 1067: AETC 2009-002. PC III installations will be performed by the 309 Maintenance Wing geographically separated unit at Randolph AFB, TX.

Milestone/Development Status

Kit & system integration complete.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4					P-1 Line Item Number / Title: T03800 / T-38					Modification Number / Title: 6088 / Pacer Classic III			
Models of Systems Affected: T-38				Modification Type: Service Life Extension				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Aircraft Modification Kits</i>													
A Kits													
Recurring													
Aircraft Modification Kits:INSTALL KITS Group A (Active)	65 / 26.864	20 / 6.883	11 / 4.400	18 / 7.200	- / -	18 / 7.200	14 / 5.600	11 / 4.400	11 / 4.400	- / -	- / -	150 / 59.747	
<i>Subtotal: Recurring</i>	- / 26.864	- / 6.883	- / 4.400	- / 7.200	- / -	- / 7.200	- / 5.600	- / 4.400	- / 4.400	- / -	- / -	- / 59.747	
<i>Subtotal: Aircraft Modification Kits</i>	- / 26.864	- / 6.883	- / 4.400	- / 7.200	- / -	- / 7.200	- / 5.600	- / 4.400	- / 4.400	- / -	- / -	- / 59.747	
<i>Subtotal: Procurement, All Modification Items</i>	- / 26.864	- / 6.883	- / 4.400	- / 7.200	- / -	- / 7.200	- / 5.600	- / 4.400	- / 4.400	- / -	- / -	- / 59.747	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	0 / 17.791	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.791	
OTHER GOVT	- / 12.263	- / -	- / 5.602	- / 10.300	- / -	- / 10.300	- / 10.300	- / 10.300	- / 10.300	- / 10.300	- / -	- / 19.365	
PMA - Contractor Services	- / 1.865	- / 10.174	- / 10.620	- / 10.630	- / -	- / 10.630	- / -	- / -	- / -	- / -	- / -	- / 13.289	
PMA - Other Gov't Costs	- / 1.009	- / 10.057	- / 10.040	- / 10.040	- / -	- / 10.040	- / 10.040	- / 10.050	- / 10.050	- / 10.050	- / -	- / 11.336	
<i>Subtotal: Support</i>	0 / 32.928	- / 10.231	- / 6.262	- / 10.970	- / -	- / 10.970	- / 10.340	- / 10.350	- / 10.350	- / 10.350	- / -	- / 41.781	
Installation													
<i>Modification Item 1 of 1: Aircraft Modification Kits</i>	11 / 14.268	17 / 20.962	12 / 13.878	21 / 23.085	- / -	21 / 23.085	21 / 19.658	21 / 18.081	21 / 18.477	21 / 23.305	5 / 6.080	150 / 157.794	
<i>Subtotal: Installation</i>	11 / 14.268	17 / 20.962	12 / 13.878	21 / 23.085	- / -	21 / 23.085	21 / 19.658	21 / 18.081	21 / 18.477	21 / 23.305	5 / 6.080	150 / 157.794	
Total													
Total Cost (Procurement + Support + Installation)	74.060	28.076	24.540	31.255	-	31.255	25.598	22.831	23.227	23.655	6.080	259.322	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6088 / Pacer Classic III

Modification Item 1 of 1: Aircraft Modification Kits

Manufacturer Information

Manufacturer Name: Northrop Grumman Tech Services	Manufacturer Location: Herndon, VA
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Aug 2015	Jul 2016	Jul 2017	Jul 2018			
Delivery Dates	Aug 2016	Jul 2017	Jul 2018	Jul 2019			

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 14.268	17 / 20.962	12 / 13.878	21 / 23.085	- / -	21 / 23.085	4 / 2.233	- / -	- / -	- / -	- / -	65 / 74.426
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	17 / 17.425	3 / 3.540	- / -	- / -	- / -	20 / 20.965
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 9.631	- / -	- / -	- / -	11 / 9.631
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 4.910	11 / 9.835	- / -	- / -	18 / 14.745
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 8.642	4 / 4.816	- / -	14 / 13.458
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 12.254	- / -	11 / 12.254
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 6.235	5 / 6.080	11 / 12.315
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 14.268	17 / 20.962	12 / 13.878	21 / 23.085	- / -	21 / 23.085	21 / 19.658	21 / 18.081	21 / 18.477	21 / 23.305	5 / 6.080	150 / 157.794

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	11	4	4	4	5	3	3	3	3	5	5	6	5	5	6	5	5	5	5	6	5	5	5	5	6	5	5	5	6	5	5	5	6	5	150
Out	2	-	9	4	4	4	5	3	3	3	3	5	5	6	5	5	6	5	5	5	5	6	5	5	5	5	5	6	5	5	16	150			

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4				P-1 Line Item Number / Title: T03800 / T-38				Modification Number / Title: 6090 / T-38C Avionics Post Production Support (APPS)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	6.053	13.824	-	13.824	29.083	74.661	2.557	2.603	-	128.781
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	6.053	13.824	-	13.824	29.083	74.661	2.557	2.603	-	128.781
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	6.053	13.824	-	13.824	29.083	74.661	2.557	2.603	-	128.781
<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 T-38C Avionics Upgrade Program (AUP) installed a "Glass Cockpit" into the T-38 jet trainer and re-designated the upgraded aircraft from the T-38A/B to the T-38C model. The AUP modification was completed in 2007 and utilized a Commercial Off-The-Shelf (COTS)/Non-Developmental Item (NDI) approach to acquire kits. The system is in the operations and maintenance phase. Off-equipment repair of the Line Replaceable Units (LRU), engineering and software support services is provided via Contractor Logistics Support. The current contract, T-38C Avionics Post Production Support, identified significant obsolescence issues with the Heads-Up Display (HUD) system, the Mission Display Processor (MDP), VHF Communication receiver transmitter and the VHF Navigation radio.

The Avionics Component Integration (AvCI) contract is currently in the source selection process. The current contract strategy is projected to be a Type D IDIQ contract competitively awarded to address T-38C avionics system obsolescence issues and provide CLS follow-on support. The AvCI contract awarded 4 January 2016. Avionics system DMSMS mitigation efforts will begin immediately upon award and the follow-on CLS effort will be begin upon termination of the current contracted effort (01 April 2017).

Mitigation plans include the following: The program will begin non-recurring development in FY2016 for replacement, overhaul or refurbishment of the Heads-Up Display System, Mission Display Processor, VHF Navigation Receiver and VHF Communication Radio. Procurement of the Heads-Up Display System, Mission Display Processor, VHF Navigation Receiver and VHF Communication Radio will begin in FY2016.

The Federal Aviation Administration has mandated that all aircraft flying in FAA controlled air space be equipped with Automatic Dependent Surveillance - Broadcast (ADS-B) Out equipment by 01 January 2020. The T-38C program will begin development and integration of a solution upon AvCI contract award.

The T-38A/B aircraft will modified as early as FY17 through a separate contract.

Milestone/Development Status

Source Selection efforts are currently ongoing. Contract award is expected in the 2nd quarter of FY2016

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38C Avionics Post Production Support (APPS)

Models of Systems Affected: T-38	Modification Type: Reliability & Maintainability	Related RDT&E PEs: 0604233F
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement												
Modification Item 1 of 5: ADS-B												
A Kits												
Recurring												
ADS-B:INSTALL KITS Group A (Active)	- / -	- / -	20 / 0.133	49 / 0.326	- / -	49 / 0.326	100 / 0.666	256 / 1.704	9 / 0.060	8 / 0.060	- / -	442 / 2.949
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.133	- / 0.326	- / -	- / 0.326	- / 0.666	- / 1.704	- / 0.060	- / 0.060	- / -	- / 2.949
B Kits												
Recurring												
ADS-B:EQUIPMENT Group B (Active)	- / -	- / -	20 / 0.399	49 / 0.978	- / -	49 / 0.978	100 / 1.997	256 / 5.113	9 / 0.180	8 / 0.180	- / -	442 / 8.847
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.399	- / 0.978	- / -	- / 0.978	- / 1.997	- / 5.113	- / 0.180	- / 0.180	- / -	- / 8.847
<i>Subtotal: ADS-B</i>	- / -	- / -	- / 0.532	- / 1.304	- / -	- / 1.304	- / 2.663	- / 6.817	- / 0.240	- / 0.240	- / -	- / 11.796
Modification Item 2 of 5: Heads-Up Display System												
A Kits												
Recurring												
Heads-Up Display System:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
Heads-Up Display System:EQUIPMENT Group B (Active)	- / -	- / -	21 / 2.929	47 / 6.560	- / -	47 / 6.560	100 / 13.968	258 / 35.975	8 / 1.126	8 / 1.266	- / -	442 / 61.824
<i>Subtotal: Recurring</i>	- / -	- / -	- / 2.929	- / 6.560	- / -	- / 6.560	- / 13.968	- / 35.975	- / 1.126	- / 1.266	- / -	- / 61.824
<i>Subtotal: Heads-Up Display System</i>	- / -	- / -	- / 2.929	- / 6.560	- / -	- / 6.560	- / 13.968	- / 35.975	- / 1.126	- / 1.266	- / -	- / 61.824
Modification Item 3 of 5: Mission Display Processor												
A Kits												
Recurring												
Mission Display Processor:INSTALL KITS Group A (Active)	- / -	- / -	21 / 0.248	46 / 0.543	- / -	46 / 0.543	100 / 1.181	257 / 3.035	10 / 0.118	9 / 0.106	- / -	443 / 5.231
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.248	- / 0.543	- / -	- / 0.543	- / 1.181	- / 3.035	- / 0.118	- / 0.106	- / -	- / 5.231
B Kits												
Recurring												
Mission Display Processor:EQUIPMENT Group B (Active)	- / -	- / -	21 / 0.744	46 / 1.630	- / -	46 / 1.630	100 / 3.543	257 / 9.104	10 / 0.354	8 / 0.319	- / -	442 / 15.694

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38C Avionics Post Production Support (APPS)

Models of Systems Affected: T-38	Modification Type: Reliability & Maintainability	Related RDT&E PEs: 0604233F
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.744	- / 1.630	- / -	- / 1.630	- / 3.543	- / 9.104	- / 0.354	- / 0.319	- / -	- / 15.694
<i>Subtotal: Mission Display Processor</i>	- / -	- / -	- / 0.992	- / 2.173	- / -	- / 2.173	- / 4.724	- / 12.139	- / 0.472	- / 0.425	- / -	- / 20.925
Modification Item 4 of 5: VHF Communication Radio												
A Kits												
Recurring												
VHF Communication Radio:INSTALL KITS Group A (Active)	- / -	- / -	21 / 0.284	49 / 0.663	- / -	49 / 0.663	100 / 1.352	255 / 3.449	9 / 0.122	8 / 0.122	- / -	442 / 5.992
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.284	- / 0.663	- / -	- / 0.663	- / 1.352	- / 3.449	- / 0.122	- / 0.122	- / -	- / 5.992
B Kits												
Recurring												
VHF Communication Radio:EQUIPMENT Group B (Active)	- / -	- / -	21 / 0.852	49 / 1.988	- / -	49 / 1.988	100 / 4.057	255 / 10.346	9 / 0.365	8 / 0.365	- / -	442 / 17.973
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.852	- / 1.988	- / -	- / 1.988	- / 4.057	- / 10.346	- / 0.365	- / 0.365	- / -	- / 17.973
<i>Subtotal: VHF Communication Radio</i>	- / -	- / -	- / 1.136	- / 2.651	- / -	- / 2.651	- / 5.409	- / 13.795	- / 0.487	- / 0.487	- / -	- / 23.965
Modification Item 5 of 5: VHF Navigation Receiver												
A Kits												
Recurring												
VHF Navigation Receiver:INSTALL KITS Group A (Active)	- / -	- / -	20 / 0.116	49 / 0.284	- / -	49 / 0.284	100 / 0.580	256 / 1.484	10 / 0.058	7 / 0.046	- / -	442 / 2.568
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.116	- / 0.284	- / -	- / 0.284	- / 0.580	- / 1.484	- / 0.058	- / 0.046	- / -	- / 2.568
B Kits												
Recurring												
VHF Navigation Receiver:EQUIPMENT Group B (Active)	- / -	- / -	20 / 0.348	49 / 0.852	- / -	49 / 0.852	100 / 1.739	256 / 4.451	10 / 0.174	7 / 0.139	- / -	442 / 7.703
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.348	- / 0.852	- / -	- / 0.852	- / 1.739	- / 4.451	- / 0.174	- / 0.139	- / -	- / 7.703
<i>Subtotal: VHF Navigation Receiver</i>	- / -	- / -	- / 0.464	- / 1.136	- / -	- / 1.136	- / 2.319	- / 5.935	- / 0.232	- / 0.185	- / -	- / 10.271
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 6.053	- / 13.824	- / -	- / 13.824	- / 29.083	- / 74.661	- / 2.557	- / 2.603	- / -	- / 128.781
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	-	6.053	13.824	-	13.824	29.083	74.661	2.557	2.603	-	128.781

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38C Avionics Post Production Support (APPS)

Modification Item 1 of 5: ADS-B

Manufacturer Information

Manufacturer Name: Boeing				Manufacturer Location: Chicago, IL			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates		Mar 2016	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 442
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38C Avionics Post Production Support (APPS)

Modification Item 2 of 5: Heads-Up Display System

Manufacturer Information

Manufacturer Name: Boeing Manufacturer Location: Chicago, IL

Administrative Leadtime (in Months): 0 Production Leadtime (in Months): 2

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Oct 2017	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates		Mar 2016	Dec 2017	Dec 2017	Dec 2018	Dec 2019	Dec 2020

Installation Information

Method of Implementation (Organic): Org/Intermediate **Installation Quantity:** 442

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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38C Avionics Post Production Support (APPS)

Modification Item 3 of 5: Mission Display Processor

Manufacturer Information

Manufacturer Name: Boeing				Manufacturer Location: Chicago, IL			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates		Mar 2016	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 442
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38C Avionics Post Production Support (APPS)

Modification Item 4 of 5: VHF Communication Radio

Manufacturer Information

Manufacturer Name: Boeing				Manufacturer Location: Chicago, IL			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates		Mar 2016	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 442
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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38C Avionics Post Production Support (APPS)

Modification Item 5 of 5: VHF Navigation Receiver

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Chicago, IL
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 2

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates		Mar 2016	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 442
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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: 11U200 / U-2 Mods
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305202F	Other Related Program Elements: 0305202F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
<i>Procurement Quantity (Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Cost (\$ in Millions)</i>	96.347	-	22.095	36.074	-	36.074	26.590	7.474	-	-	-	188.580
<i>Less PY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Net Procurement (P-1) (\$ in Millions)</i>	96.347	-	22.095	36.074	-	36.074	26.590	7.474	-	-	-	188.580
<i>Plus CY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	96.347	-	22.095	36.074	-	36.074	26.590	7.474	-	-	-	188.580

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

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

Description:

The Central Intelligence Agency (CIA) established the Senior Year Program in 1955. The program has evolved significantly over the years to include the U-2 airframe, engines, sensors, cameras, recorders, data links, life support systems, test facilities and equipment. The U-2S model airframes were constructed in the late 1980s, with the last aircraft rolling off the assembly line in 1989. The U-2S provides global reconnaissance signals intelligence (SIGINT) and geospatial intelligence (GEOINT) 24 hours a day, seven days a week in support of national and DoD worldwide missions. The U-2 is currently deployed to forward operating locations (FOL) around the world. Modifications to the aircraft and payloads are required to ensure continued operational effectiveness in support of Combatant Commander Requirements and in accordance with previous NDAA guidance.

In the 2013 PB, the Air Force decided to retain the U-2 weapon system instead of retiring it. At that time sustainment efforts and capability upgrades to the platform and payloads were pursued to support National and Combatant Commander requirements.

In the 2015 PB, the Air Force decided to retire the U-2 in 2016. In accordance with 10 U.S.C. 2244a, the U-2 weapon system is identified as Equipment Scheduled For Retirement Or Disposal: Limitation On Expenditures For Modifications, stating that modification to any aircraft (i.e., a given tail number, weapon, or item of equipment that the SECAF plans to retire or otherwise dispose of within 5 years after the date on which the modification would be completed) are prohibited.

In the 2016 PB, the Air Force re-phased U-2 divestiture to begin in FY2019 and to complete no later than FY2020. In accordance with 10 U.S.C. 2244a, the Secretary of the Air Force may waive the prohibition on modifications if the Secretary determines that carrying out the modification is in the national security interest of the United States. Therefore, modifications required to address sustainment issues (diminishing manufacturing sources, vanishing vendor items) or operational utility were submitted to the Secretary for approval to ensure operational effectiveness and to comply with guidance received in previous and current NDAA's for the timeframe of phased divestiture. The National Security Waiver was signed by the Secretary of the Air Force on 26 May 2015.

In the 2017 PB, the Air Force will continue to address reliability, maintainability, sustainability, and safety issues and support U-2 integration of payloads and capabilities by taking prudent acquisition actions to meet operational requirements, comply with previous NDAA guidance, and IAW 10 U.S.C. Prudent acquisition activities also include trade studies, analyses, preliminary systems engineering, system and subsystem level testing in accordance with DoD and military standards, and specification development in support of both current program planning and execution as well as studies supporting analysis and investment in future U-2 program planning.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
11U200 / U-2 Mods

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0305202F **Other Related Program Elements:** 0305202F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	4494 / U-2 Mod (Other)			- / 96.347	- / -	- / 22.095	- / 36.074	- / -	- / 36.074
P-40	Total Gross/Weapon System Cost			- / 96.347	- / -	- / 22.095	- / 36.074	- / -	- / 36.074

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	4494 / U-2 Mod (Other)			- / 26.590	- / 17.474	- / -	- / -	- / -	- / 188.580
P-40	Total Gross/Weapon System Cost			- / 26.590	- / 17.474	- / -	- / -	- / -	- / 188.580

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: 11U200 / U-2 Mods				Modification Number / Title: 4494 / U-2 Mod				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	96.347	-	22.095	36.074	-	36.074	26.590	7.474	-	-	-	188.580
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	96.347	-	22.095	36.074	-	36.074	26.590	7.474	-	-	-	188.580
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	96.347	-	22.095	36.074	-	36.074	26.590	7.474	-	-	-	188.580
<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 U-2 Program will continue to address reliability, maintainability, sustainability, and safety issues and support U-2 integration of payloads and capabilities by taking prudent acquisition actions to meet operational requirements, comply with previous NDAA guidance, and in accordance with 10 U.S.C. Aircraft and sensor sustainment or enhancements include activities such as, but not limited to the following current programs:

- Advanced Synthetic Aperture Radar System (ASARS) development, integration and testing to support collection capability and capacity requirements to meet global ISR requirements.
- Senior Year Electro-optical Reconnaissance System (SYERS) sustainment and enhancements to optics and focal planes in support of operational requirements.
- Electronic Warfare System (EWS) sustainment and enhancements to mitigate DMS and to defend against current and emerging threat systems.
- Data Link sustainment: Development, integration and test of beyond line of sight (BLOS) and tactical data links in support of operational sustainment and mitigate DMS.
- Modification programs in support safety of flight, DMS/MS concerns, support of operational capability and capacity requirements to include: airframe, avionics, mission planning, navigation systems (to include GPS), payload sensors, and associated ground support equipment.
- Signals Intelligence (SIGINT) system sustainment, test and integration to meet operational requirements.

Milestone/Development Status

Various efforts will continue to develop technologies and capabilities supporting U-2 operations, and will be fielded onto the U-2 platforms, on a schedule dependent on system requirements.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: 11U200 / U-2 Mods					Modification Number / Title: 4494 / U-2 Mod		
Models of Systems Affected: U-2				Modification Type: Other				Related RDT&E PEs: 0305202F				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
RDT&E PE #												
0305202F	- / 135.370	- / 5.511	- / 34.471	- / 17.414	- / -	- / 17.414	- / 6.942	- / 1.487	- / -	- / -	- / -	- / 101.195
Procurement												
<i>Modification Item 1 of 1:</i> U-2 Update Block 20-1												
A Kits												
Recurring												
U-2 Update Block 20-1:INSTALL KITS Group A (Active)	0 / 96.347	- / -	2 / 19.395	2 / 32.574	- / -	2 / 32.574	2 / 23.090	1 / 5.774	- / -	- / -	- / -	7 / 177.180
<i>Subtotal: Recurring</i>	- / 96.347	- / -	- / 19.395	- / 32.574	- / -	- / 32.574	- / 23.090	- / 5.774	- / -	- / -	- / -	- / 177.180
<i>Subtotal: U-2 Update Block 20-1</i>	- / 96.347	- / -	- / 19.395	- / 32.574	- / -	- / 32.574	- / 23.090	- / 5.774	- / -	- / -	- / -	- / 177.180
<i>Subtotal: Procurement, All Modification Items</i>	- / 96.347	- / -	- / 19.395	- / 32.574	- / -	- / 32.574	- / 23.090	- / 5.774	- / -	- / -	- / -	- / 177.180
Installation												
<i>Modification Item 1 of 1:</i> U-2 Update Block 20-1	- / -	- / -	2 / 2.700	2 / 3.500	- / -	2 / 3.500	2 / 3.500	1 / 1.700	- / -	- / -	- / -	7 / 11.400
<i>Subtotal: Installation</i>	- / -	- / -	2 / 2.700	2 / 3.500	- / -	2 / 3.500	2 / 3.500	1 / 1.700	- / -	- / -	- / -	7 / 11.400
Total												
Total Cost (Procurement + Support + Installation)	96.347	-	22.095	36.074	-	36.074	26.590	7.474	-	-	-	188.580

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: 11U200 / U-2 Mods	Modification Number / Title: 4494 / U-2 Mod

Modification Item 1 of 1: U-2 Update Block 20-1

Manufacturer Information

Manufacturer Name: Details Classified	Manufacturer Location: Details Classified
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019		
Delivery Dates		Jul 2016	Jul 2017	Jul 2018	Jul 2019		

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	2 / 2.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.700
FY 2017	- / -	- / -	- / -	2 / 3.500	- / -	2 / 3.500	- / -	- / -	- / -	- / -	- / -	2 / 3.500
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.500	- / -	- / -	- / -	- / -	2 / 3.500
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.700	- / -	- / -	- / -	1 / 1.700
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 2.700	2 / 3.500	- / -	2 / 3.500	2 / 3.500	1 / 1.700	- / -	- / -	- / -	7 / 11.400

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C01000 / KC-10A (ATCA)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401219F, 0804747F	Other Related Program Elements: 0401219F, 0401897F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
<i>Procurement Quantity (Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Cost (\$ in Millions)</i>	181.684	77.513	5.611	4.570	-	4.570	3.502	4.704	4.784	3.404	-	285.772
<i>Less PY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Net Procurement (P-1) (\$ in Millions)</i>	181.684	77.513	5.611	4.570	-	4.570	3.502	4.704	4.784	3.404	-	285.772
<i>Plus CY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	181.684	77.513	5.611	4.570	-	4.570	3.502	4.704	4.784	3.404	-	285.772

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

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

Description:

This line item funds modifications for the fleet of 59 KC-10 aircraft with a projected service life until 2042. On average, the aircraft are 31 years old with 27 service years remaining. The three engine KC-10 serves a dual role by providing both air refueling and strategic airlift support. The aircraft provides air refueling by using both the boom and the drogue methods and can carry up to 27 standard 463-L pallets. The primary modifications are Communications Navigation Surveillance/Air Traffic Management (CNS/ATM), Mode-5 Identification Friend or Foe (IFF) Surveillance, and Service Bulletins (SBs) that address obsolescence issues, provide worldwide civil airspace accessibility, and incorporate aging aircraft and FAA certification requirements.

Funding for this exhibit is contained in PE 0401219F.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C01000 / KC-10A (ATCA)

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0401219F, 0804747F **Other Related Program Elements:** 0401219F, 0401897F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	7726 / CNS/ATM (Capability Improvement)			- / 43.364	- / 72.049	- / -	- / -	- / -	- / -
P-40a***	7727 / Boom Control Unit (BCU) (Other)			- / 2.512	- / -	- / -	- / -	- / -	- / -
P-40a***	7729 / Visual System Replacement (VSR) (Capability Improvement)			- / 12.723	- / -	- / -	- / -	- / -	- / -
P-40a***	7730 / UHF SATCOM Antenna (Other)			- / 5.338	- / -	- / -	- / -	- / -	- / -
P-40a***	9709 / GATM Phase II (Capability Improvement)			- / 47.925	- / -	- / -	- / -	- / -	- / -
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Capability Improvement)			- / 0.015	- / 0.001	- / 0.001	- / 0.001	- / -	- / 0.001
P-40a***	99999S / SERVICE BULLETINS (Service Life Extension)			- / 27.918	- / 4.763	- / 4.900	- / 4.568	- / -	- / 4.568
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 5.858	- / 0.700	- / 0.710	- / 0.001	- / -	- / 0.001
P-40a***	SIM-10 / SIMULATOR UPGRADE (KC-10) (No text provided.)			- / 36.031	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 181.684	- / 77.513	- / 5.611	- / 4.570	- / -	- / 4.570

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	7726 / CNS/ATM (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 115.413
P-40a***	7727 / Boom Control Unit (BCU) (Other)			- / -	- / -	- / -	- / -	- / -	- / 2.512
P-40a***	7729 / Visual System Replacement (VSR) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 12.723
P-40a***	7730 / UHF SATCOM Antenna (Other)			- / -	- / -	- / -	- / -	- / -	- / 5.338
P-40a***	9709 / GATM Phase II (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 47.925
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Capability Improvement)			- / 0.001	- / 0.001	- / 0.001	- / 0.001	- / -	- / 0.022
P-40a***	99999S / SERVICE BULLETINS (Service Life Extension)			- / 3.500	- / 4.702	- / 4.782	- / 3.402	- / -	- / 58.535
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.001	- / 0.001	- / 0.001	- / 0.001	- / -	- / 7.273
P-40a***	SIM-10 / SIMULATOR UPGRADE (KC-10) (No text provided.)			- / -	- / -	- / -	- / -	- / -	- / 36.031
P-40	Total Gross/Weapon System Cost			- / 3.502	- / 4.704	- / 4.784	- / 3.404	- / -	- / 285.772

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

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

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C01200 / C-12
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
<i>Procurement Quantity (Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Cost (\$ in Millions)</i>	0.876	1.960	1.980	1.995	-	1.995	2.037	2.074	2.110	2.149	-	15.181
<i>Less PY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Net Procurement (P-1) (\$ in Millions)</i>	0.876	1.960	1.980	1.995	-	1.995	2.037	2.074	2.110	2.149	-	15.181
<i>Plus CY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.876	1.960	1.980	1.995	-	1.995	2.037	2.074	2.110	2.149	-	15.181

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

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

Description:

This line item funds low-cost modifications and service bulletins for 28 C-12 C, D, F, and J aircraft, commercial equivalent to the Beech Craft Super King Air. The C-12 is a twin-turboprop, support-airlift aircraft used to transport cargo and passengers over medium distances. The design service life is 30,000 hours with 22,000 hours remaining on the D (6), 19,000 remaining on the C (16), 17,000 on the J (4) and 10,000 on the F (2). Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration certification while improving flight safety, reliability, and maintainability.

Funding for this exhibit contained in PE 0401314F.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft **P-1 Line Item Number / Title:**
C01200 / C-12

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.376	- / 1.460	- / 1.480	- / 1.495	- / -	- / 1.495
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / -	- / 0.500
P-40	Total Gross/Weapon System Cost			- / 0.876	- / 1.960	- / 1.980	- / 1.995	- / -	- / 1.995

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 1.537	- / 1.574	- / 1.610	- / 1.649	- / -	- / 11.181
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / -	- / 4.000
P-40	Total Gross/Weapon System Cost			- / 2.037	- / 2.074	- / 2.110	- / 2.149	- / -	- / 15.181

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

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

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C02500 / VC-25A Mod
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.263	1.072	98.231	102.670	-	102.670	66.171	28.264	49.009	0.993	-	346.673
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.263	1.072	98.231	102.670	-	102.670	66.171	28.264	49.009	0.993	-	346.673
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.263	1.072	98.231	102.670	-	102.670	66.171	28.264	49.009	0.993	-	346.673

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

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

Description:

This line item funds modifications for (2) VC-25 aircraft, a commercial derivative of the Boeing 747-200. The VC-25 is a four-engine turbofan aircraft used for Presidential support worldwide. The aircraft are commonly known as "Air Force One." The design service life is 30 years, with an average of approximately 5 years remaining. These on-going modifications are to extend that service life. Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration certification while improving flight safety, reliability, and maintainability.

VC-25 Block Upgrades ensures aircraft viability until the Presidential Aircraft Recapitalization program reaches full operational capability by installing protected Satellite Communications, chillers, Nitrogen Generation System, weather radar, digital/voice data systems, and network capabilities.

The FY 2017 funding request was reduced by \$39.65 million to account for the availability of prior year execution balances.

Funding for this exhibit contained in PE 0401314F

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C02500 / VC-25A Mod

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	9711 / C-25 Avionics Modernization Program (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9713 / Nitrogen Generation System (Capability Improvement)			- / -	- / 0.500	- / -	- / -	- / -	- / -
P-40a***	9714 / WIDEBAND SATCOM (Capability Improvement)			- / -	- / -	- / 28.000	- / -	- / -	- / -
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.163	- / 0.472	- / 0.131	- / 0.236	- / -	- / 0.236
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.100
P-3a	9715 / VC-25 Block Upgrade (Capability Improvement)			- / -	- / -	- / 70.000	- / 102.334	- / -	- / 102.334
P-40	Total Gross/Weapon System Cost			- / 0.263	- / 1.072	- / 98.231	- / 102.670	- / -	- / 102.670

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	9711 / C-25 Avionics Modernization Program (Capability Improvement)			- / 26.730	- / -	- / -	- / -	- / -	- / 26.730
P-40a***	9713 / Nitrogen Generation System (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 0.500
P-40a***	9714 / WIDEBAND SATCOM (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 28.000
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.893	- / 0.893	- / 0.893	- / 0.893	- / -	- / 4.574
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.800
P-3a	9715 / VC-25 Block Upgrade (Capability Improvement)			- / 38.448	- / 27.271	- / 48.016	- / -	- / -	- / 286.069
P-40	Total Gross/Weapon System Cost			- / 66.171	- / 28.264	- / 49.009	- / 0.993	- / -	- / 346.673

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C02500 / VC-25A Mod				Modification Number / Title: 9715 / VC-25 Block Upgrade				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	70.000	102.334	-	102.334	38.448	27.271	48.016	-	-	286.069
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	70.000	102.334	-	102.334	38.448	27.271	48.016	-	-	286.069
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	70.000	102.334	-	102.334	38.448	27.271	48.016	-	-	286.069

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

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

Description:

This modification installs a number of viability upgrades on Air Force VC-25A aircraft. The block modification includes: Protected SATCOM, Chillers, Nitrogen Generation System, weather radar, digital voice/data systems, and network capabilities (e.g., Commercial Internet, Multi-Role Tactical Common Data Link, Mobile User Objective System) to successfully complete the President of the United States airlift mission until the Presidential Aircraft Recapitalization program reaches full operational capability. Installation of the block upgrade will be aligned with aircraft heavy maintenance depot visits beginning in FY17.

Milestone/Development Status

Commercial-off-the-Shelf item with non-recurring engineering for integration.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C02500 / VC-25A Mod					Modification Number / Title: 9715 / VC-25 Block Upgrade			
Models of Systems Affected: VC-25A				Modification Type: Capability Improvement				Related RDT&E PEs: 0401314F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Block Upgrade													
A Kits													
Recurring													
Block Upgrade:INSTALL KITS Group A (Active)	- / -	- / -	1 / 27.300	1 / 22.400	- / -	1 / 22.400	- / -	- / -	- / -	- / -	- / -	2 / 49.700	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 27.300	- / 22.400	- / -	- / 22.400	- / -	- / -	- / -	- / -	- / -	- / 49.700	
<i>Subtotal: Block Upgrade</i>	- / -	- / -	- / 27.300	- / 22.400	- / -	- / 22.400	- / -	- / -	- / -	- / -	- / -	- / 49.700	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 27.300	- / 22.400	- / -	- / 22.400	- / -	- / -	- / -	- / -	- / -	- / 49.700	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / 37.400	- / 31.034	- / -	- / 31.034	- / 24.352	- / -	- / 41.900	- / -	- / -	- / 134.686	
OTHER GOVT	- / -	- / -	- / 1.400	- / 16.500	- / -	- / 16.500	- / 8.096	- / -	- / -	- / -	- / -	- / 25.996	
PMA - Other Gov't Costs	- / -	- / -	- / 3.900	- / 3.400	- / -	- / 3.400	- / 6.000	- / 3.271	- / 6.116	- / -	- / -	- / 22.687	
<i>Subtotal: Support</i>	- / -	- / -	- / 42.700	- / 50.934	- / -	- / 50.934	- / 38.448	- / 3.271	- / 48.016	- / -	- / -	- / 183.369	
Installation													
<i>Modification Item 1 of 1:</i> Block Upgrade	- / -	- / -	- / -	1 / 29.000	- / -	1 / 29.000	- / -	1 / 24.000	- / -	- / -	- / -	2 / 53.000	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	1 / 29.000	- / -	1 / 29.000	- / -	1 / 24.000	- / -	- / -	- / -	2 / 53.000	
Total													
Total Cost (Procurement + Support + Installation)	-	-	70.000	102.334	-	102.334	38.448	27.271	48.016	-	-	286.069	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C02500 / VC-25A Mod	Modification Number / Title: 9715 / VC-25 Block Upgrade

Modification Item 1 of 1: Block Upgrade

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: San Antonio, TX
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 24

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jun 2016	Jun 2017				
Delivery Dates		Jun 2018	Jun 2019				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	1 / 29.000	- / -	1 / 29.000	- / -	- / -	- / -	- / -	- / -	1 / 29.000
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 24.000	- / -	- / -	- / -	1 / 24.000
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 29.000	- / -	1 / 29.000	- / -	1 / 24.000	- / -	- / -	- / -	2 / 53.000

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C04000 / C-40
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	54.119	7.292	11.171	13.984	-	13.984	11.077	0.253	0.258	0.263	-	98.417
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	54.119	7.292	11.171	13.984	-	13.984	11.077	0.253	0.258	0.263	-	98.417
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	54.119	7.292	11.171	13.984	-	13.984	11.077	0.253	0.258	0.263	-	98.417

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

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

Description:

This line item funds all modifications for (11) C-40B and C-40C aircraft, commercial-derivative Boeing 737 business jets. The C-40B/C is a twin-engine, turbo fan aircraft used to airlift DoD officials and government personnel worldwide. The design service life is 30 years with an average of 23 years remaining.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration (FAA) certification while improving flight safety, reliability, and maintainability.

Funding for this exhibit contained in PE 0401314F.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.592	9.371	13.984	-	13.984	11.077	0.253	0.258
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.500	0.600	-	-	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.200	1.200	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.292	11.171	13.984	-	13.984	11.077	0.253	0.258

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C04000 / C-40

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	1110 / Nitrogen Generation System (Other)			- / 5.873	- / 3.077	- / 2.041	- / -	- / -	- / -
P-40a***	1119 / CNS/ATM Compliance (Capability Improvement)			- / -	- / -	- / 0.969	- / 2.841	- / -	- / 2.841
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.131	- / 0.100	- / 0.146	- / 0.143	- / -	- / 0.143
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.115	- / 0.115	- / 0.115	- / 0.100	- / -	- / 0.100
P-3a	1118 / WIDEBAND SATCOM (Capability Improvement)			- / 48.000	- / 4.000	- / 7.900	- / 10.900	- / -	- / 10.900
P-40	Total Gross/Weapon System Cost			- / 54.119	- / 7.292	- / 11.171	- / 13.984	- / -	- / 13.984

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	1110 / Nitrogen Generation System (Other)			- / -	- / -	- / -	- / -	- / -	- / 10.991
P-40a***	1119 / CNS/ATM Compliance (Capability Improvement)			- / 10.828	- / -	- / -	- / -	- / -	- / 14.638
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.149	- / 0.153	- / 0.158	- / 0.163	- / -	- / 1.143
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.845
P-3a	1118 / WIDEBAND SATCOM (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 70.800
P-40	Total Gross/Weapon System Cost			- / 11.077	- / 0.253	- / 0.258	- / 0.263	- / -	- / 98.417

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C04000 / C-40						Modification Number / Title: 1118 / WIDEBAND SATCOM		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	48.000	4.000	7.900	10.900	-	10.900	-	-	-	-	-	70.800
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	48.000	4.000	7.900	10.900	-	10.900	-	-	-	-	-	70.800
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	48.000	4.000	7.900	10.900	-	10.900	-	-	-	-	-	70.800

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

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

Description:

This modification installs wide-band satellite communications infrastructure and corrects communications system obsolescence issues on (4) Air Force C-40B aircraft. The C-40B is a commercial derivative of the Boeing 737-700 Business Jet. Air Force C-40s maintain Federal Aviation Administration Certification. This modification provides national senior leaders with the ability to execute business enterprise and Command and Control functions globally while airborne. It maintains senior leader access to Top Secret/Sensitive Compartmented Information (TS/SCI) voice/data/video networks (Crisis Management System/ Joint Worldwide Intelligence Communications System) and Unclassified, Secret, and TS/SCI voice/data/video networks to conduct time critical targeting of high value targets, as required, and crisis actions while airborne.

Milestone/Development Status

Commercial-off-the-shelf item with non-recurring engineering for integration

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.000	7.900	10.900	-	10.900	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.000	7.900	10.900	-	10.900	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C04000 / C-40					Modification Number / Title: 1118 / WIDEBAND SATCOM			
Models of Systems Affected: C-40B, C-40C				Modification Type: Capability Improvement				Related RDT&E PEs: 0401314F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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> Wideband SATCOM													
A Kits													
Recurring													
Wideband SATCOM:INSTALL KITS Group A (Active)	1 / 3.900	1 / 3.900	1 / 3.800	1 / 3.800	- / -	1 / 3.800	- / -	- / -	- / -	- / -	- / -	4 / 15.400	
<i>Subtotal: Recurring</i>	- / 3.900	- / 3.900	- / 3.800	- / 3.800	- / -	- / 3.800	- / -	- / -	- / -	- / -	- / -	- / 15.400	
B Kits													
Recurring													
Wideband SATCOM:EQUIPMENT Group B (Active)	4 / 20.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 20.000	
<i>Subtotal: Recurring</i>	- / 20.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.000	
<i>Subtotal: Wideband SATCOM</i>	- / 23.900	- / 3.900	- / 3.800	- / 3.800	- / -	- / 3.800	- / -	- / -	- / -	- / -	- / -	- / 35.400	
<i>Subtotal: Procurement, All Modification Items</i>	- / 23.900	- / 3.900	- / 3.800	- / 3.800	- / -	- / 3.800	- / -	- / -	- / -	- / -	- / -	- / 35.400	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 24.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.000	
PMA - Other Gov't Costs	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / 0.400	
Data	- / -	- / -	- / -	- / 1.000	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / 1.000	
<i>Subtotal: Support</i>	- / 24.100	- / 0.100	- / 0.100	- / 1.100	- / -	- / 1.100	- / -	- / -	- / -	- / -	- / -	- / 25.400	
Installation													
<i>Modification Item 1 of 1:</i> Wideband SATCOM	- / -	- / -	2 / 4.000	2 / 6.000	- / -	2 / 6.000	- / -	- / -	- / -	- / -	- / -	4 / 10.000	
<i>Subtotal: Installation</i>	- / -	- / -	2 / 4.000	2 / 6.000	- / -	2 / 6.000	- / -	- / -	- / -	- / -	- / -	4 / 10.000	
Total													
Total Cost (Procurement + Support + Installation)	48.000	4.000	7.900	10.900	-	10.900	-	-	-	-	-	70.800	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C04000 / C-40	Modification Number / Title: 1118 / WIDEBAND SATCOM

Modification Item 1 of 1: Wideband SATCOM

Manufacturer Information

Manufacturer Name: L-3 Communications	Manufacturer Location: Greenville, TX
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Nov 2015	Nov 2016				
Delivery Dates	Feb 2015	Mar 2016	Mar 2017				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	1 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.000
FY 2015	- / -	- / -	1 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.000
FY 2016	- / -	- / -	- / -	1 / 3.000	- / -	1 / 3.000	- / -	- / -	- / -	- / -	- / -	1 / 3.000
FY 2017	- / -	- / -	- / -	1 / 3.000	- / -	1 / 3.000	- / -	- / -	- / -	- / -	- / -	1 / 3.000
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 4.000	2 / 6.000	- / -	2 / 6.000	- / -	- / -	- / -	- / -	- / -	4 / 10.000

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C13000 / C-130

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207224F, 0401115F **Other Related Program Elements:** 0207224F, 0401115F, 0401134F, 0401897F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,651.093	159.309	136.658	9.168	-	9.168	76.073	57.331	136.779	196.660	1,399.898	4,822.969
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,651.093	159.309	136.658	9.168	-	9.168	76.073	57.331	136.779	196.660	1,399.898	4,822.969
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,651.093	159.309	136.658	9.168	-	9.168	76.073	57.331	136.779	196.660	1,399.898	4,822.969

(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:

FY15 funding totals include \$35.04M for Overseas Contingency Operations.
FY16 funding totals include \$1.41M for Overseas Contingency Operations.

This line item funds modifications to the legacy C-130 and Special Mission C-130 aircraft. The four engine legacy C-130 provides theater airlift and carries either 92 troops, 64 paratroopers, 74 litter patients, or 6 standard 463-L pallets.

The modifications budgeted in FY17 PB are the Systems/Structure (Center Wing Replacement) mod, the C-130 Auxiliary Hydraulic Pump mod, and low cost/safety/misc sims mods.

In the FY17 PB, the FY16 PB "C-130H Viability and Airspace Access Program (VAAP) Increment 1" has been renamed "C-130H Avionics Modernization Program (AMP) Increment 1".

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

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

Funding for this exhibit is contained in PEs 0401115F, 0404011F, 0207224F, 0504343F.

The FY 2017 funding request was reduced by \$9.742M to account for the availability of prior year execution balances.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	105.728	85.173	9.168	-	9.168	15.642	20.792	53.574	53.563

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C13000 / C-130
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207224F, 0401115F	Other Related Program Elements: 0207224F, 0401115F, 0401134F, 0401897F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	53.286	50.960	-	-	-	41.535	26.959	66.029	98.656
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.295	0.525	-	-	-	18.896	9.580	17.176	44.441
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	159.309	136.658	9.168	-	9.168	76.073	57.331	136.779	196.660

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C13000 / C-130

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207224F, 0401115F **Other Related Program Elements:** 0207224F, 0401115F, 0401134F, 0401897F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	11130 / PODDED RECONNAISSANCE SYSTEM (Capability Improvement)			- / 8.422	- / -	- / -	- / -	- / -	- / -
P-40a***	17605B / AUTOPILOT/GCAS (Capability Improvement)			- / 48.227	- / -	- / -	- / -	- / -	- / -
P-40a***	18600B / ELECTRICAL SYSTEM UPGRADE (Safety)			- / 15.636	- / -	- / -	- / -	- / -	- / -
P-40a***	3773 / C-130 8-Bladed Propeller Upgrade (Capability Improvement)			- / 26.000	- / 30.000	- / 10.000	- / -	- / -	- / -
P-40a***	6040 / ENGINES (Service Life Extension)			- / 8.016	- / -	- / -	- / -	- / -	- / -
P-40a***	8220 / ALR-69 (RWR) (Capability Improvement)			- / 64.289	- / -	- / -	- / -	- / -	- / -
P-40a***	8385 / AN/AAQ-22M (FLIR) (Capability Improvement)			- / 10.154	- / -	- / -	- / -	- / -	- / -
P-40a***	8455 / INSTALLATION OF AN/APN-241 (Capability Improvement)			- / 127.336	- / -	- / -	- / -	- / -	- / -
P-40a***	8515 / Electronic Propeller Control System (EPCS) (Capability Improvement)			- / 1.100	- / -	- / -	- / -	- / -	- / -
P-40a***	8517 / C-130 AVIONICS MODERNIZATION PROGRAM (AMP) (Capability Improvement)			- / 175.159	- / 35.800	- / -	- / -	- / -	- / -
P-40a***	8518 / C-130H Avionics Modernization Program (AMP) Increment 2 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8526 / ENHANCED TCAS (TCAS II) (No text provided.)			- / 36.153	- / -	- / -	- / -	- / -	- / -
P-40a***	8561 / SYNCHROPHASER WIRE (C-130) (Safety)			- / 6.033	- / -	- / -	- / -	- / -	- / -
P-40a***	8562 / C-130 GENERATOR DISCONNECT INSTALLATION WR-98-004 (Capability Improvement)			- / 1.475	- / -	- / -	- / -	- / -	- / -
P-40a***	8577 / ALE-47 CHAFF AND FLARE DISPENSER (Capability Improvement)			- / 23.057	- / -	- / -	- / -	- / -	- / -
P-40a***	8579 / Mode S & 8.33 MHz Upgrades (Capability Improvement)			- / 78.554	- / -	- / -	- / -	- / -	- / -
P-40a***	8591 / ALR-69 UPGRADE (Capability Improvement)			- / 13.780	- / -	- / -	- / -	- / -	- / -
P-40a***	8629 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) (Capability Improvement)			- / 853.368	- / -	- / -	- / -	- / -	- / -
P-40a***	8630 / HC-130P/N Personal Locator System (Capability Improvement)			- / 5.400	- / 0.240	- / -	- / -	- / -	- / -
P-40a***	8631 / HC-130 Integrated Electronic Warfare (EW) Suite (Capability Improvement)			- / 6.000	- / -	- / -	- / -	- / -	- / -
P-40a***	8651 / AAR-47 Sensor Upgrade (Capability Improvement)			- / 1.618	- / -	- / -	- / -	- / -	- / -
P-40a***	9134 / NOISE CANCELLATION SYSTEM (Capability Improvement)			- / 10.925	- / -	- / -	- / -	- / -	- / -
P-40a***	9135 / AC-130 OUTER WING REPLACEMENT (Service Life Extension)			- / 4.845	- / -	- / -	- / -	- / -	- / -
P-40a***	9137 / HC-130 8.33 RADIOS (Capability Improvement)			- / 21.872	- / -	- / -	- / -	- / -	- / -
P-40a***	9139 / MOD V IFF (Capability Improvement)			- / 41.948	- / 1.630	- / -	- / -	- / -	- / -
P-40a***	9140 / C-130 DUAL RAILS (Capability Improvement)			- / 4.117	- / -	- / -	- / -	- / -	- / -
P-40a***	9141 / C-130 CRASHWORTHY LOADMASTER SEAT (Capability Improvement)			- / 16.256	- / 1.089	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C13000 / C-130

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207224F, 0401115F **Other Related Program Elements:** 0207224F, 0401115F, 0401134F, 0401897F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	9142 / Tactics/Threat Generation System (Capability Improvement)			- / 9.009	- / -	- / -	- / -	- / -	- / -
P-40a***	9143 / MC Combined CARA/ETCAS (Capability Improvement)			- / 2.307	- / -	- / -	- / -	- / -	- / -
P-40a***	9145 / Blue Force Tracker (Capability Improvement)			- / 0.400	- / -	- / -	- / -	- / -	- / -
P-40a***	9146 / Armor Plate (Capability Improvement)			- / 20.502	- / -	- / -	- / -	- / -	- / -
P-40a***	9147 / ENGINE OIL COOLER (Capability Improvement)			- / 31.125	- / -	- / -	- / -	- / -	- / -
P-40a***	9148 / Square Window Troop Door (Capability Improvement)			- / 16.401	- / -	- / -	- / -	- / -	- / -
P-40a***	9149 / C-130 Aux Hyd Pump (Capability Improvement)			- / 13.330	- / 1.237	- / 0.326	- / 0.328	- / -	- / 0.328
P-40a***	9150 / Real Time Information in the Cockpit (RTIC) Kits (Capability Improvement)			- / 1.875	- / -	- / -	- / -	- / -	- / -
P-40a***	92301 / AFR C-130 Fuselage Trainer Modification (Capability Improvement)			- / 7.000	- / -	- / -	- / -	- / -	- / -
P-40a***	92302 / C-130H Avionics Modernization Program (AMP) Increment 1 (Capability Improvement)			- / -	- / -	- / 70.000	- / -	- / -	- / -
P-40a***	92302A / 8.33 kHz Radios--C-130H Avionics Modernization Program (AMP) Increment 1 (Capability Improvement)			- / 9.922	- / 7.447	- / -	- / -	- / -	- / -
P-40a***	92302B / CVR/DFDR--C-130H Avionics Modernization Program (AMP) Increment 1 (Capability Improvement)			- / 4.278	- / 7.151	- / -	- / -	- / -	- / -
P-40a***	92303 / HC-130 Crashworthy Seats (Capability Improvement)			- / 6.000	- / -	- / -	- / -	- / -	- / -
P-40a***	92304 / HC-130 T-1 Mods (Reliability & Maintainability)			- / 3.675	- / -	- / -	- / -	- / -	- / -
P-40a***	92305 / AC-130W Radar Pods (Capability Improvement)			- / -	- / 20.400	- / -	- / -	- / -	- / -
P-40a***	92306 / AC-130W Hellfire Capability (Capability Improvement)			- / -	- / 2.240	- / -	- / -	- / -	- / -
P-40a***	92307 / HC-130 SABIR (Capability Improvement)			- / -	- / 12.400	- / -	- / -	- / -	- / -
P-40a***	92308 / T-56 3.5 Engine Mod (Capability Improvement)			- / 15.700	- / 22.600	- / 33.200	- / -	- / -	- / -
P-40a***	92309 / Onboard Fire Incident Response Equipment (Capability Improvement)			- / 130.000	- / -	- / -	- / -	- / -	- / -
P-40a***	92310 / HC-130P/N Variable Speed Drogue (VSD) (Capability Improvement)			- / -	- / -	- / 1.410	- / -	- / -	- / -
P-40a***	92311 / Electronic Propeller Control System (EPCS) (Capability Improvement)			- / -	- / -	- / 13.500	- / -	- / -	- / -
P-40a***	92312 / In-Flight Propeller Balancing System (IPBS) (Reliability & Maintainability)			- / -	- / -	- / 1.500	- / -	- / -	- / -
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)			- / 2.832	- / 1.384	- / 1.900	- / 0.500	- / -	- / 0.500
P-40a***	99999C / HC-130 Low Cost Mods (Reliability & Maintainability)			- / 1.907	- / -	- / -	- / -	- / -	- / -
P-40a***	99999M / MISC SIMULATOR UPDATES (Capability Improvement)			- / 0.703	- / 0.001	- / 1.200	- / 0.100	- / -	- / 0.100
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 0.001	- / 0.001	- / 1.226	- / 1.101	- / -	- / 1.101
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 8.988	- / 1.999	- / 1.900	- / 1.999	- / -	- / 1.999

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C13000 / C-130

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207224F, 0401115F **Other Related Program Elements:** 0207224F, 0401115F, 0401134F, 0401897F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	GW111 / ELT UPGRADE (Capability Improvement)			- / 18.341	- / -	- / -	- / -	- / -	- / -
P-40a***	SCOUT / ANG SENIOR SCOUT (Service Life Extension)			- / 77.508	- / -	- / -	- / -	- / -	- / -
P-3a	8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) (Service Life Extension)			- / 659.549	- / 13.690	- / 0.496	- / 5.140	- / -	- / 5.140
P-40	Total Gross/Weapon System Cost			- / 2,651.093	- / 159.309	- / 136.658	- / 9.168	- / -	- / 9.168

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	11130 / PODDED RECONNAISSANCE SYSTEM (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 8.422
P-40a***	17605B / AUTOPILOT/GCAS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 48.227
P-40a***	18600B / ELECTRICAL SYSTEM UPGRADE (Safety)			- / -	- / -	- / -	- / -	- / -	- / 15.636
P-40a***	3773 / C-130 8-Bladed Propeller Upgrade (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 66.000
P-40a***	6040 / ENGINES (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / 8.016
P-40a***	8220 / ALR-69 (RWR) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 64.289
P-40a***	8385 / AN/AAQ-22M (FLIR) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 10.154
P-40a***	8455 / INSTALLATION OF AN/APN-241 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 127.336
P-40a***	8515 / Electronic Propeller Control System (EPCS) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 1.100
P-40a***	8517 / C-130 AVIONICS MODERNIZATION PROGRAM (AMP) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 210.959
P-40a***	8518 / C-130H Avionics Modernization Program (AMP) Increment 2 (Capability Improvement)			- / -	- / -	- / 102.676	- / 173.770	- / 1,395.900	- / 1,672.346
P-40a***	8526 / ENHANCED TCAS (TCAS II) (No text provided.)			- / -	- / -	- / -	- / -	- / -	- / 36.153
P-40a***	8561 / SYNCHROPHASER WIRE (C-130) (Safety)			- / -	- / -	- / -	- / -	- / -	- / 6.033
P-40a***	8562 / C-130 GENERATOR DISCONNECT INSTALLATION WR-98-004 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 1.475
P-40a***	8577 / ALE-47 CHAFF AND FLARE DISPENSER (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 23.057
P-40a***	8579 / Mode S & 8.33 MHz Upgrades (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 78.554
P-40a***	8591 / ALR-69 UPGRADE (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 13.780
P-40a***	8629 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 853.368
P-40a***	8630 / HC-130P/N Personal Locator System (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 5.640
P-40a***	8631 / HC-130 Integrated Electronic Warfare (EW) Suite (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 6.000

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C13000 / C-130

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207224F, 0401115F **Other Related Program Elements:** 0207224F, 0401115F, 0401134F, 0401897F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8651 / AAR-47 Sensor Upgrade (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 1.618
P-40a***	9134 / NOISE CANCELLATION SYSTEM (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 10.925
P-40a***	9135 / AC-130 OUTER WING REPLACEMENT (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / 4.845
P-40a***	9137 / HC-130 8.33 RADIOS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 21.872
P-40a***	9139 / MOD V IFF (Capability Improvement)			- / 2.600	- / -	- / -	- / -	- / -	- / 46.178
P-40a***	9140 / C-130 DUAL RAILS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 4.117
P-40a***	9141 / C-130 CRASHWORTHY LOADMASTER SEAT (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 17.345
P-40a***	9142 / Tactics/Threat Generation System (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 9.009
P-40a***	9143 / MC Combined CARA/ETCAS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 2.307
P-40a***	9145 / Blue Force Tracker (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 0.400
P-40a***	9146 / Armor Plate (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 20.502
P-40a***	9147 / ENGINE OIL COOLER (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 31.125
P-40a***	9148 / Square Window Troop Door (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 16.401
P-40a***	9149 / C-130 Aux Hyd Pump (Capability Improvement)			- / 0.522	- / -	- / -	- / -	- / -	- / 15.743
P-40a***	9150 / Real Time Information in the Cockpit (RTIC) Kits (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 1.875
P-40a***	92301 / AFR C-130 Fuselage Trainer Modification (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 7.000
P-40a***	92302 / C-130H Avionics Modernization Program (AMP) Increment 1 (Capability Improvement)			- / 53.000	- / 51.543	- / 15.000	- / 4.000	- / -	- / 193.543
P-40a***	92302A / 8.33 kHz Radios--C-130H Avionics Modernization Program (AMP) Increment 1 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 17.369
P-40a***	92302B / CVR/DFDR--C-130H Avionics Modernization Program (AMP) Increment 1 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 11.429
P-40a***	92303 / HC-130 Crashworthy Seats (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 6.000
P-40a***	92304 / HC-130 T-1 Mods (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 3.675
P-40a***	92305 / AC-130W Radar Pods (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 20.400
P-40a***	92306 / AC-130W Hellfire Capability (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 2.240
P-40a***	92307 / HC-130 SABIR (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 12.400
P-40a***	92308 / T-56 3.5 Engine Mod (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 71.500
P-40a***	92309 / Onboard Fire Incident Response Equipment (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 130.000
P-40a***	92310 / HC-130P/N Variable Speed Drogue (VSD) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 1.410

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C13000 / C-130

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207224F, 0401115F **Other Related Program Elements:** 0207224F, 0401115F, 0401134F, 0401897F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	92311 / Electronic Propeller Control System (EPCS) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 13.500
P-40a***	92312 / In-Flight Propeller Balancing System (IPBS) (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 1.500
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)			- / 1.900	- / 1.463	- / 1.716	- / 1.594	- / -	- / 13.289
P-40a***	99999C / HC-130 Low Cost Mods (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 1.907
P-40a***	99999M / MISC SIMULATOR UPDATES (Capability Improvement)			- / 0.274	- / 1.189	- / 0.365	- / 0.064	- / -	- / 3.896
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)			- / 1.012	- / 0.607	- / 0.001	- / 0.200	- / -	- / 4.149
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 1.999	- / 1.999	- / 1.999	- / 1.999	- / 3.998	- / 26.880
P-40a***	GW111 / ELT UPGRADE (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 18.341
P-40a***	SCOUT / ANG SENIOR SCOUT (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / 77.508
P-3a	8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) (Service Life Extension)			- / 14.766	- / 0.530	- / 15.022	- / 15.033	- / -	- / 724.226
P-40	Total Gross/Weapon System Cost			- / 76.073	- / 57.331	- / 136.779	- / 196.660	- / 1,399.898	- / 4,822.969

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C13000 / C-130				Modification Number / Title: 8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	659.549	13.690	0.496	5.140	-	5.140	14.766	0.530	15.022	15.033	-	724.226
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	659.549	13.690	0.496	5.140	-	5.140	14.766	0.530	15.022	15.033	-	724.226
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	659.549	13.690	0.496	5.140	-	5.140	14.766	0.530	15.022	15.033	-	724.226
<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:

Replaces the Center Wing Box (CWB) on MC-130H, HC-130N/P, C-130H, EC-130H, and AC-130U aircraft whose center wings service life expires between 2005-2021. Kit costs vary by Mission Design Series (MDS) as reflected in the kit costs FY05-FY21. Installations are done at the Warner Robins Air Logistics Center (WR-ALC), except for the EC-130Hs which are done at L3 Communication's facility.

The following is a status of each MDS: MC-130H: 20 required, 20 procured, 100%; HC-130: 4 required, 4 procured, 100%; AC-130U: 15 required, 15 procured, 100%; C-130H1: 28 required, 28 procured, 100%; EC-130H: 14 required, 14 procured, 100%; C-130H2/3: 26 required (through 2021), 20 procured, 6 to be procured, 77%.

The C-130 Systems/Structures mod is a validated requirement via AF Special Operations Command's Operational Requirement Document 023-93-1, and Air Mobility Command's (AMC) AF Form 1067s (AMC-04-228, AMC-05-148, AMC-06-005, AMC-06-136).

Milestone/Development Status

N/A There was no RDT&E on this program

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.690	0.496	5.140	-	5.140	0.498	0.530	0.521	0.532
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	7.134	-	14.501	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	7.134	-	-	14.501
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	13.690	0.496	5.140	-	5.140	14.766	0.530	15.022	15.033

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)

Models of Systems Affected: C-130H, MC-130H, HC-130P, HC-130N, EC-130H, AC-130U	Modification Type: Service Life Extension	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 6: AC-130U												
A Kits												
Recurring												
AC-130U:INSTALL KITS Group A (Active)	15 / 53.926	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 53.926
<i>Subtotal: Recurring</i>	- / 53.926	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 53.926
<i>Subtotal: AC-130U</i>	- / 53.926	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 53.926
Modification Item 2 of 6: C-130H1												
A Kits												
Recurring												
C-130H1:INSTALL KITS Group A (Active)	28 / 102.218	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 102.218
<i>Subtotal: Recurring</i>	- / 102.218	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 102.218
<i>Subtotal: C-130H1</i>	- / 102.218	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 102.218
Modification Item 3 of 6: C-130H2/3												
A Kits												
Recurring												
C-130H2/3:INSTALL KITS Group A (Active)	14 / 54.530	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 54.530
C-130H2/3:INSTALL KITS Group A (Guard)	4 / 16.851	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 14.501	- / -	- / -	7 / 31.352
C-130H2/3:INSTALL KITS Group A (Reserve)	2 / 8.364	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 14.501	- / -	5 / 22.865
<i>Subtotal: Recurring</i>	- / 79.745	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.501	- / 14.501	- / -	- / 108.747
<i>Subtotal: C-130H2/3</i>	- / 79.745	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.501	- / 14.501	- / -	- / 108.747
Modification Item 4 of 6: EC-130H												
A Kits												
Recurring												
EC-130H:INSTALL KITS Group A (Active)	14 / 54.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 54.834
<i>Subtotal: Recurring</i>	- / 54.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 54.834
<i>Subtotal: EC-130H</i>	- / 54.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 54.834
Modification Item 5 of 6: HC-130												
A Kits												
Recurring												
HC-130:INSTALL KITS Group A (Active)	4 / 17.311	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 17.311

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force											Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C13000 / C-130				Modification Number / Title: 8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)					
Models of Systems Affected: C-130H, MC-130H, HC-130P, HC-130N, EC-130H, AC-130U				Modification Type: Service Life Extension				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Recurring</i>	- / 17.311	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.311	
<i>Subtotal: HC-130</i>	- / 17.311	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.311	
Modification Item 6 of 6: MC-130H													
A Kits													
Recurring													
MC-130H:INSTALL KITS Group A (Active)	20 / 72.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 72.078	
<i>Subtotal: Recurring</i>	- / 72.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 72.078	
<i>Subtotal: MC-130H</i>	- / 72.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 72.078	
<i>Subtotal: Procurement, All Modification Items</i>	- / 380.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.501	- / 14.501	- / -	- / 409.114	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 41.291	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 41.291	
Change Orders	- / 4.415	- / 2.244	- / -	- / 0.290	- / -	- / 0.290	- / -	- / -	- / -	- / -	- / -	- / 6.949	
Data	- / 1.629	- / 2.000	- / -	- / 1.760	- / -	- / 1.760	- / -	- / -	- / -	- / -	- / -	- / 5.389	
SUPPORT-EQUIP	- / 3.290	- / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.290	
OTHER GOVT	- / 1.194	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.194	
A&AS	- / 2.531	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.531	
PMA - Contractor Services	- / 1.136	- / 0.076	- / 0.485	- / 0.479	- / -	- / 0.479	- / 0.486	- / 0.518	- / 0.509	- / 0.519	- / -	- / 4.208	
PMA - Other Gov't Costs	- / 3.772	- / 0.170	- / 0.011	- / 0.011	- / -	- / 0.011	- / 0.012	- / 0.012	- / 0.012	- / 0.013	- / -	- / 4.013	
<i>Subtotal: Support</i>	- / 59.258	- / 8.490	- / 0.496	- / 2.540	- / -	- / 2.540	- / 0.498	- / 0.530	- / 0.521	- / 0.532	- / -	- / 72.865	
Installation													
<i>Modification Item 1 of 6: AC-130U</i>	15 / 34.572	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 34.572	
<i>Modification Item 2 of 6: C-130H1</i>	28 / 70.067	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 70.067	
<i>Modification Item 3 of 6: C-130H2/3</i>	16 / 40.046	- / -	- / -	- / -	- / -	- / -	4 / 14.268	- / -	- / -	- / -	6 / -	26 / 54.314	
<i>Modification Item 4 of 6: EC-130H</i>	10 / 26.194	1 / 5.200	2 / -	1 / 2.600	- / -	1 / 2.600	- / -	- / -	- / -	- / -	- / -	14 / 33.994	
<i>Modification Item 5 of 6: HC-130</i>	4 / 10.890	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 10.890	
<i>Modification Item 6 of 6: MC-130H</i>	20 / 38.410	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 38.410	
<i>Subtotal: Installation</i>	93 / 220.179	1 / 5.200	2 / -	1 / 2.600	- / -	1 / 2.600	4 / 14.268	- / -	- / -	- / -	6 / -	107 / 242.247	
Total													
Total Cost (Procurement + Support + Installation)	659.549	13.690	0.496	5.140	-	5.140	14.766	0.530	15.022	15.033	-	724.226	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)

Modification Item 1 of 6: AC-130U

Manufacturer Information

Manufacturer Name: Lockheed Martin (3)	Manufacturer Location: Marietta, GA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 15

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	15 / 34.572	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 34.572
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 34.572	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 34.572

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
Out	14	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)

Modification Item 2 of 6: C-130H1

Manufacturer Information

Manufacturer Name: Lockheed Martin (5)	Manufacturer Location: Marietta, GA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 27

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	28 / 70.067	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 70.067
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	28 / 70.067	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 70.067

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
Out	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)

Modification Item 3 of 6: C-130H2/3

Manufacturer Information

Manufacturer Name: Lockheed Martin (6)	Manufacturer Location: Marietta, GA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 27

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						Dec 2019	Dec 2020
Delivery Dates						Mar 2022	Mar 2023

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	16 / 40.046	- / -	- / -	- / -	- / -	- / -	4 / 14.268	- / -	- / -	- / -	- / -	20 / 54.314
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / -	3 / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / -	3 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	16 / 40.046	- / -	- / -	- / -	- / -	- / -	4 / 14.268	- / -	- / -	- / -	6 / -	26 / 54.314

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	16	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	6	26
Out	14	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	6	26

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)

Modification Item 4 of 6: EC-130H

Manufacturer Information

Manufacturer Name: Lockheed Martin (2)	Manufacturer Location: Marietta, GA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 15

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	10 / 26.194	1 / 5.200	2 / 0.000	1 / 2.600	- / -	1 / 2.600	- / -	- / -	- / -	- / -	- / -	14 / 33.994
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10 / 26.194	1 / 5.200	2 / -	1 / 2.600	- / -	1 / 2.600	- / -	- / -	- / -	- / -	- / -	14 / 33.994

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	10	1	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Out	10	-	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)

Modification Item 5 of 6: HC-130

Manufacturer Information

Manufacturer Name: Lockheed Martin (4)	Manufacturer Location: Marietta, GA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 27

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 10.890	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 10.890
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 10.890	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 10.890

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Out	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)

Modification Item 6 of 6: MC-130H

Manufacturer Information

Manufacturer Name: Lockheed Martin (1)	Manufacturer Location: Marietta, GA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 15

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	20 / 38.410	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 38.410
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	20 / 38.410	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 38.410

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
Out	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C1300J / C-130J Mods
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401132F	Other Related Program Elements: 0401132F, 0401134F, 0401897F
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Line Item MDAP/MAIS Code: 220	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	247.534	25.919	29.713	89.424	-	89.424	110.174	139.191	133.016	135.467	773.174	1,683.612
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	247.534	25.919	29.713	89.424	-	89.424	110.174	139.191	133.016	135.467	773.174	1,683.612
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	247.534	25.919	29.713	89.424	-	89.424	110.174	139.191	133.016	135.467	773.174	1,683.612

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

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

Description:

The C-130J is a medium-size transport aircraft capable of performing a variety of combat delivery (tactical airlift) operations across a broad range of mission environments. The C-130J aircraft, with its extended (by 15 ft) fuselage, provides additional cargo carrying capacity for the USAF combat delivery mission compared with legacy C-130E/Hs and the C-130J (short).

Other variants of the USAF C-130J fleet are all short-bodied aircraft and include the EC-130J (airborne psychological operations), WC-130J (weather reconnaissance), HC-130J (combat search and rescue), MC-130J (special operations), and the AC-130J (close air support and armed reconnaissance).

As of 1 Jan 2016, there are 174 USAF C-130J Variants: C-130J - 94, C-130J (short) - 10, WC-130J - 10, EC-130J - 7, HC-130J - 18, MC-130J - 30, AC-130J - 5. The designed service life is 35 years and the average service life remaining is 30.0 years.

Funding for this exhibit is contained in PE 0401132F. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

FY15 funding totals include \$18 for Overseas Contingency Operations

In FY17, the center wing box replacement program continues with the procurement of three enhanced service life (ESL) center wing kits. Since Nov 2009, all production C-130Js have been delivered with the ESL center wing.

Blocks 7.0 and 8.1 together will allow the C-130J to meet all known Communication, Navigation and Surveillance/Air Traffic Management (CNS/ATM) and navigation safety mandates.

In order to better manage the fleet and avoid having to simultaneously support three separate aircraft configurations (Block 6, Block 7 and Block 8.1), Blocks 7.0 and 8.1 have been combined. This way the aircraft and trainers will only have to be modified one time.

The USAF is considering fielding the IFF Mode 5 and ADS-B Out portions of Block 8.1 ahead of the remaining 36 capabilities in order to comply with the Federal Aviation Administration (FAA) 2020 mandates.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C1300J / C-130J Mods
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401132F	Other Related Program Elements: 0401132F, 0401134F, 0401897F
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Line Item MDAP/MAIS Code: 220	Item MDAP/MAIS Code(s): N/A
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The international C-130J Block 7 collaborative development program completed in 2014. Block 8.1 is in DT&E with OT&E scheduled for 2017. The USAF begins ordering Block 7.0/8.1 modification kits in 2016 under Mod #5222, Block 8.1.

NOTE: USMC KC-130Js and USCG HC-130Js are following USAF's lead and will also field a combined Block 7/8.1 aircraft.

	Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	25.918	29.713	89.424	-	89.424	110.174	139.191	133.016	135.467
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	25.918	29.713	89.424	-	89.424	110.174	139.191	133.016	135.467

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C1300J / C-130J Mods

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0401132F **Other Related Program Elements:** 0401132F, 0401134F, 0401897F

Line Item MDAP/MAIS Code: 220 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	_1680 / C-130J Tactics Training (Capability Improvement)			- / 16.015	- / -	- / -	- / -	- / -	- / -
P-40a***	_2612 / Avionics System and Structural Modifications (Capability Improvement)			- / 23.502	- / 0.432	- / 0.283	- / 3.200	- / -	- / 3.200
P-40a***	_5296 / Wind Gust Brake (Reliability & Maintainability)			- / 39.172	- / 0.148	- / 0.114	- / 1.600	- / -	- / 1.600
P-40a***	_6298 / C-130J BLOCK 7.0 UPGRADES (Capability Improvement)			- / 13.452	- / -	- / -	- / -	- / -	- / -
P-40a***	8629 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) (Capability Improvement)			- / 91.807	- / -	- / -	- / -	- / -	- / -
P-40a***	8647 / Dynamic Retasking Capability (Capability Improvement)			- / 23.010	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Safety)			- / 9.004	- / 0.001	- / 0.100	- / 0.100	- / -	- / 0.100
P-3a	5222 / BLOCK 8.1 (Capability Improvement)			- / -	- / -	- / 28.716	- / 71.729	- / -	- / 71.729
P-3a	8646 / C-130J Center Wing Replacement (Service Life Extension)			- / 31.572	- / 25.337	- / 0.500	- / 12.795	- / -	- / 12.795
P-40	Total Gross/Weapon System Cost			- / 247.534	- / 25.919	- / 29.713	- / 89.424	- / -	- / 89.424

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	_1680 / C-130J Tactics Training (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 16.015
P-40a***	_2612 / Avionics System and Structural Modifications (Capability Improvement)			- / 3.200	- / 0.296	- / -	- / -	- / -	- / 30.913
P-40a***	_5296 / Wind Gust Brake (Reliability & Maintainability)			- / 1.500	- / 0.250	- / -	- / -	- / -	- / 42.784
P-40a***	_6298 / C-130J BLOCK 7.0 UPGRADES (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 13.452
P-40a***	8629 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 91.807
P-40a***	8647 / Dynamic Retasking Capability (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 23.010
P-40a***	99999X / Low Cost Modifications (Safety)			- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / -	- / 11.205
P-3a	5222 / BLOCK 8.1 (Capability Improvement)			- / 73.721	- / 118.520	- / 132.020	- / 134.462	- / 773.174	- / 1,332.342
P-3a	8646 / C-130J Center Wing Replacement (Service Life Extension)			- / 31.253	- / 19.625	- / 0.496	- / 0.505	- / -	- / 122.083
P-40	Total Gross/Weapon System Cost			- / 110.174	- / 139.191	- / 133.016	- / 135.467	- / 773.174	- / 1,683.612

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

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

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

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C1300J / C-130J Mods					Modification Number / Title: 5222 / BLOCK 8.1		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	28.716	71.729	-	71.729	73.721	118.520	132.020	134.462	773.174	1,332.342
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	28.716	71.729	-	71.729	73.721	118.520	132.020	134.462	773.174	1,332.342
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	28.716	71.729	-	71.729	73.721	118.520	132.020	134.462	773.174	1,332.342

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

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

Description:

The C-130J combined 7.0 and 8.1 Block Upgrades (BU) modification program funds the procurement and installation of Communication, Navigation and Surveillance Air Traffic Management (CNS/ATM) navigation safety and other aircraft hardware and software improvements on USAF C-130J aircraft and associated training systems. The combined BU 7.0 and 8.1 (now called just Block 8.1) is being implemented to maintain access to global airspace, enhance aircraft navigational accuracy and aircrew situational awareness. It increases overall C-130J operational utility/effectiveness and reduces C-130J systems/parts obsolescence.

Lockheed Martin will be responsible for integrating 38 capabilities including: a new Flight Management System, civil GPS, Link-16, digital maps, Mission Computer - Operational Flight Program (MC-OPF), Data Transfer and Diagnostic System (DTADS), a modified control yoke, BU 8.1 TEMPEST compliance, Identification Friend or Foe (IFF) Transponder Mode 5, Enhanced Inter-Communication System, CNS / ATM Civil Data Link and Automatic Dependent Surveillance Broadcast (ADS-B) out. Installation of HC/MC/AC retrofit kits (94) are funded under the HC/MC Recap Mod program. Additional funding has been added for AMC to procure Group B Kits for the ACC and AFSOC Block 8.1 programs.

The USAF is considering fielding the IFF Mode 5 and ADS-B Out portions of Block 8.1 ahead of the remaining 36 capabilities in order to comply with the 2020 mandates.

Milestone/Development Status

BU 7.0 development is complete. BU 8.1 common core operational testing is scheduled to completed by 4QFY16.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	28.716	71.729	-	71.729	73.721	118.520	132.020	134.462
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	28.716	71.729	-	71.729	73.721	118.520	132.020	134.462

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C1300J / C-130J Mods					Modification Number / Title: 5222 / BLOCK 8.1			
Models of Systems Affected: C-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0401132F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0401132F	- / -	- / -	- / 19.360	- / 19.294	- / -	- / 19.294	- / -	- / -	- / -	- / -	- / -	- / 28.654	
Procurement													
Modification Item 1 of 1: Block 81 LM Kit													
A Kits													
Recurring													
Block 81 LM Kit:INSTALL KITS Group A (Active)	- / -	- / -	3 / 2.406	14 / 11.564	- / -	14 / 11.564	15 / 12.750	12 / 10.284	20 / 18.020	20 / 18.560	57 / 57.692	141 / 131.276	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 2.406	- / 11.564	- / -	- / 11.564	- / 12.750	- / 10.284	- / 18.020	- / 18.560	- / 57.692	- / 131.276	
B Kits													
Recurring													
Block 81 LM Kit:EQUIPMENT Group B (Active)	- / -	- / -	6 / 14.466	17 / 42.194	- / -	17 / 42.194	15 / 38.340	25 / 65.775	23 / 62.284	21 / 58.569	133 / 406.203	240 / 687.831	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 14.466	- / 42.194	- / -	- / 42.194	- / 38.340	- / 65.775	- / 62.284	- / 58.569	- / 406.203	- / 687.831	
<i>Subtotal: Block 81 LM Kit</i>	- / -	- / -	- / 16.872	- / 53.758	- / -	- / 53.758	- / 51.090	- / 76.059	- / 80.304	- / 77.129	- / 463.895	- / 819.107	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 16.872	- / 53.758	- / -	- / 53.758	- / 51.090	- / 76.059	- / 80.304	- / 77.129	- / 463.895	- / 819.107	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / 6.000	- / 15.000	- / -	- / 15.000	- / 4.000	- / -	- / -	- / -	- / 10.000	- / 25.000	
OTHER GOVT	- / -	- / -	- / 1.071	- / 1.084	- / -	- / 1.084	- / 1.547	- / 0.744	- / 0.607	- / 1.660	- / 27.024	- / 33.737	
Data	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.500	- / 1.500	
SIM/TRAINER	- / -	- / -	1 / 1.206	2 / 6.771	- / -	2 / 6.771	2 / 7.133	1 / 10.435	3 / 14.898	2 / 13.986	3 / 35.327	14 / 89.756	
SUPPORT-EQUIP	- / -	- / -	- / 3.567	- / 15.116	- / -	- / 15.116	- / 14.917	- / 7.104	- / 9.541	- / 19.715	- / 38.193	- / 88.153	
<i>Subtotal: Support</i>	- / -	- / -	1 / 11.844	2 / 17.971	- / -	2 / 17.971	2 / 17.597	1 / 18.283	3 / 25.046	2 / 35.361	3 / 112.044	14 / 238.146	
Installation													
Modification Item 1 of 1: Block 81 LM Kit													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.034	14 / 24.178	15 / 26.670	12 / 21.972	97 / 197.235	141 / 275.089	
Total													
Total Cost (Procurement + Support + Installation)	-	-	28.716	71.729	-	71.729	73.721	118.520	132.020	134.462	773.174	1,332.342	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 5222 / BLOCK 8.1

Modification Item 1 of 1: Block 81 LM Kit

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Marietta GA/Greenville SC
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 18

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Sep 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates		Mar 2018	Jul 2018	Jul 2019	Jul 2020	Jul 2021	Jul 2022

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.034	- / -	- / -	- / -	- / -	3 / 5.034
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 24.178	- / -	- / -	- / -	14 / 24.178
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 26.670	- / -	- / -	15 / 26.670
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 21.972	- / -	12 / 21.972
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 37.700	20 / 37.700
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 38.800	20 / 38.800
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	57 / 120.735	57 / 120.735
Total	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.034	14 / 24.178	15 / 26.670	12 / 21.972	97 / 197.235	141 / 275.089

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	3	4	4	4	4	4	3	3	3	3	3	98	142
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	3	4	4	4	4	4	3	3	3	3	3	98	142

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C1300J / C-130J Mods					Modification Number / Title: 8646 / C-130J Center Wing Replacement		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	31.572	25.337	0.500	12.795	-	12.795	31.253	19.625	0.496	0.505	-	122.083
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	31.572	25.337	0.500	12.795	-	12.795	31.253	19.625	0.496	0.505	-	122.083
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	31.572	25.337	0.500	12.795	-	12.795	31.253	19.625	0.496	0.505	-	122.083

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

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

Description:

This program replaces the Center Wing Box (CWB) on C-130J aircraft with an extended service life (ESL) center wing. The ESL wing has been the standard production wing since Nov 2009. The first 77 C-130Js were built with the legacy C-130H center wing. The legacy wing has a life of 38,500 equivalent flying hours (EFH) before flight restrictions are imposed. The severity of the flight environment dictates how rapidly a wing needs to be replaced. The planes at the C-130J schoolhouse require replacement first, as virtually all of their flight hours are tactical. Validated Requirements Document: AF IMT 1067 (Modification Proposal) AMC-11-115, dated 19 Sep 11. The FY17 funding procures 3 kits and continued Program Management Administration (PMA).

Milestone/Development Status

N/A

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	25.337	0.500	12.795	-	12.795	31.253	19.625	0.496	0.505
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	25.337	0.500	12.795	-	12.795	31.253	19.625	0.496	0.505

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C1300J / C-130J Mods					Modification Number / Title: 8646 / C-130J Center Wing Replacement			
Models of Systems Affected: C-130J				Modification Type: Service Life Extension				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: C-130J CWR Contract 1</i>													
A Kits													
Recurring													
C-130J CWR Contract 1:INSTALL KITS Group A (Active)	6 / 21.516	2 / 8.008	- / -	3 / 12.295	- / -	3 / 12.295	4 / 16.597	- / -	- / -	- / -	- / -	15 / 58.416	
<i>Subtotal: Recurring</i>	- / 21.516	- / 8.008	- / -	- / 12.295	- / -	- / 12.295	- / 16.597	- / -	- / -	- / -	- / -	- / 58.416	
<i>Subtotal: C-130J CWR Contract 1</i>	- / 21.516	- / 8.008	- / -	- / 12.295	- / -	- / 12.295	- / 16.597	- / -	- / -	- / -	- / -	- / 58.416	
<i>Subtotal: Procurement, All Modification Items</i>	- / 21.516	- / 8.008	- / -	- / 12.295	- / -	- / 12.295	- / 16.597	- / -	- / -	- / -	- / -	- / 58.416	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 8.910	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.910	
Change Orders	- / -	- / 13.176	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.176	
Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.543	- / -	- / -	- / -	- / -	- / 10.543	
OCO INSTALLATIONS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / 1.116	- / 10.256	- / 10.468	- / -	- / -	- / -	- / 10.476	- / 10.485	- / 10.463	- / 10.472	- / -	- / 13.736	
A&AS	- / -	- / -	- / -	- / 10.468	- / -	- / 10.468	- / -	- / -	- / -	- / -	- / -	- / 10.468	
PMA - Other Gov't Costs	- / 10.030	- / 10.030	- / 10.032	- / 10.032	- / -	- / 10.032	- / 10.033	- / 10.034	- / 10.033	- / 10.033	- / -	- / 10.257	
<i>Subtotal: Support</i>	- / 10.056	- / 3.462	- / 10.500	- / 10.500	- / -	- / 10.500	- / 11.052	- / 10.519	- / 10.496	- / 10.505	- / -	- / 17.090	
Installation													
<i>Modification Item 1 of 1: C-130J CWR Contract 1</i>	- / -	4 / 13.867	- / -	- / -	- / -	- / -	4 / 13.604	7 / 19.106	- / -	- / -	- / -	15 / 46.577	
<i>Subtotal: Installation</i>	- / -	4 / 13.867	- / -	- / -	- / -	- / -	4 / 13.604	7 / 19.106	- / -	- / -	- / -	15 / 46.577	
Total													
Total Cost (Procurement + Support + Installation)	31.572	25.337	0.500	12.795	-	12.795	31.253	19.625	0.496	0.505	-	122.083	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 8646 / C-130J Center Wing Replacement

Modification Item 1 of 1: C-130J CWR Contract 1

Manufacturer Information

Manufacturer Name: Lockheed Martin Aero	Manufacturer Location: Marietta GA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 27

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	May 2015		Jan 2017	Jan 2018			
Delivery Dates	Aug 2017		Apr 2019	Apr 2020			

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	2 / 5.949	- / 0.000	- / 0.000	- / -	- / 0.000	4 / 13.604	- / -	- / -	- / -	- / -	6 / 19.553
FY 2015	- / -	2 / 7.918	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 7.918
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 12.046	- / -	- / -	- / -	3 / 12.046
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 7.060	- / -	- / -	- / -	4 / 7.060
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	4 / 13.867	- / -	- / -	- / -	- / -	4 / 13.604	7 / 19.106	- / -	- / -	- / -	15 / 46.577

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	-	1	-	1	1	1	-	1	1	-	-	-	15
Out	0	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	-	1	-	1	1	1	-	1	1	15

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C13500 / C-135
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401218F	Other Related Program Elements: 0401134F, 0401218F, 0401897F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,314.531	63.568	48.868	64.161	-	64.161	69.317	65.210	62.784	62.707	255.722	2,006.868
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,314.531	63.568	48.868	64.161	-	64.161	69.317	65.210	62.784	62.707	255.722	2,006.868
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,314.531	63.568	48.868	64.161	-	64.161	69.317	65.210	62.784	62.707	255.722	2,006.868

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

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

Description:

The C-135 is a four engine aircraft used for long range cargo and passenger airlift and to support theater commanders. The four engine KC-135 provides air refueling through either the refueling boom or drogue. As a cargo aircraft, the KC-135 can carry six standard 463-L pallets. There are 400 aircraft (396 KCs, 4 special purpose) in the C-135 inventory. The average age is 53 years, with 25 years of service life remaining (projected service life of 2040).

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

Funding for this exhibit is contained in PE 0401218F.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	44.270	27.078	37.383	-	37.383	37.032	33.970	28.703
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.690	14.970	18.324	-	18.324	21.909	21.850	25.327
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.608	6.820	8.454	-	8.454	10.376	9.390	8.754
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	63.568	48.868	64.161	-	64.161	69.317	65.210	62.784

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
C13500 / C-135

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0401218F **Other Related Program Elements:** 0401134F, 0401218F, 0401897F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	17403B / STANDARD FLIGHT DATA RECORDER (Capability Improvement)			- / 5.401	- / -	- / -	- / -	- / -	- / -
P-40a***	3009E / C-135 REENGINE (Capability Improvement)			- / 30.750	- / -	- / -	- / -	- / -	- / -
P-40a***	3149F / FLIGHT DATA RECORDER & COCKPIT VOICE RECORDER (Capability Improvement)			- / 27.030	- / -	- / -	- / -	- / -	- / -
P-40a***	3150PC / PACER CRAG (COMPASS, RADAR, AND GPS) (Capability Improvement)			- / 135.021	- / -	- / -	- / -	- / -	- / -
P-40a***	8654 / ENHANCED MODE S (Capability Improvement)			- / 28.092	- / -	- / -	- / -	- / -	- / -
P-40a***	9709 / GATM Phase II (Capability Improvement)			- / 909.568	- / -	- / -	- / -	- / -	- / -
P-40a***	9738 / CONTROL COLUMN ACTUATOR BRAKE (CCAB) (Capability Improvement)			- / 40.723	- / -	- / -	- / -	- / -	- / -
P-40a***	9814 / BOWST (Other)			- / 8.800	- / -	- / -	- / -	- / -	- / -
P-40a***	9817 / MODE 5 (Capability Improvement)			- / 12.994	- / -	- / -	- / -	- / -	- / -
P-40a***	9818 / VOR/ILS ANTENNAE (Capability Improvement)			- / 6.751	- / 1.727	- / 0.752	- / 0.162	- / -	- / 0.162
P-40a***	9819 / Visual System Replacement (VSR) (Capability Improvement)			- / 29.767	- / -	- / -	- / -	- / -	- / -
P-40a***	9820 / APU Oil Cooler (No text provided.)			- / 7.954	- / -	- / -	- / -	- / -	- / -
P-40a***	9824 / ADS-B (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Capability Improvement)			- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 6.814	- / 0.471	- / 1.000	- / 1.901	- / -	- / 1.901
P-3a	8653 / BLOCK 45 (Capability Improvement)			- / 64.841	- / 61.345	- / 47.091	- / 57.170	- / -	- / 57.170
P-3a	9826 / Rudder Position Indicator (RPI) (Capability Improvement)			- / -	- / -	- / -	- / 4.903	- / -	- / 4.903
P-40	Total Gross/Weapon System Cost			- / 1,314.531	- / 63.568	- / 48.868	- / 64.161	- / -	- / 64.161

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	17403B / STANDARD FLIGHT DATA RECORDER (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 5.401
P-40a***	3009E / C-135 REENGINE (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 30.750
P-40a***	3149F / FLIGHT DATA RECORDER & COCKPIT VOICE RECORDER (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 27.030
P-40a***	3150PC / PACER CRAG (COMPASS, RADAR, AND GPS) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 135.021
P-40a***	8654 / ENHANCED MODE S (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 28.092
P-40a***	9709 / GATM Phase II (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 909.568
P-40a***	9738 / CONTROL COLUMN ACTUATOR BRAKE (CCAB) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 40.723

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C13500 / C-135

ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401218F	Other Related Program Elements: 0401134F, 0401218F, 0401897F
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	9814 / BOWST (Other)			- / -	- / -	- / -	- / -	- / -	- / 8.800
P-40a***	9817 / MODE 5 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 12.994
P-40a***	9818 / VOR/ILS ANTENNAE (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 9.392
P-40a***	9819 / Visual System Replacement (VSR) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 29.767
P-40a***	9820 / APU Oil Cooler (No text provided.)			- / -	- / -	- / -	- / -	- / -	- / 7.954
P-40a***	9824 / ADS-B (Capability Improvement)			- / 5.000	- / 3.200	- / -	- / -	- / -	- / 8.200
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Capability Improvement)			- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.075	- / 0.275
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 1.000	- / 1.995	- / 1.995	- / 1.995	- / -	- / 17.171
P-3a	8653 / BLOCK 45 (Capability Improvement)			- / 57.314	- / 53.866	- / 54.497	- / 55.550	- / 254.771	- / 706.445
P-3a	9826 / Rudder Position Indicator (RPI) (Capability Improvement)			- / 5.978	- / 6.124	- / 6.267	- / 5.137	- / 0.876	- / 29.285
P-40	Total Gross/Weapon System Cost			- / 69.317	- / 65.210	- / 62.784	- / 62.707	- / 255.722	- / 2,006.868

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

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

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

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C13500 / C-135					Modification Number / Title: 8653 / BLOCK 45		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	64.841	61.345	47.091	57.170	-	57.170	57.314	53.866	54.497	55.550	254.771	706.445
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	64.841	61.345	47.091	57.170	-	57.170	57.314	53.866	54.497	55.550	254.771	706.445
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	64.841	61.345	47.091	57.170	-	57.170	57.314	53.866	54.497	55.550	254.771	706.445
<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 Block 45 program addresses reliability and maintainability issues currently experienced by the KC-135 Fleet. The modification includes a new Digital Flight Director (DFD), Digital Radio Altimeter (RA), Digital Autopilot (AP) and Electronic Engine Instrument Displays (EEID). Block 45 requirements are outlined in the Capability Production Document for KC-135 Communications, Navigation, and Surveillance / Air Traffic Management (CNS/ATM), dated 17 May 12. The DFD replaces the existing obsolete analog flight director (high maintenance driver) by providing a fully integrated flight guidance system with improved capability. The RA replaces the existing obsolete AL-101 radio altimeter (high maintenance driver) with a new state of the art digital high mean time between failure (MTBF) RA. The digital AP replaces the current obsolete analog AP system. The EEID replaces the obsolete analog engine instruments. The Air Force expects to achieve MTBF figures as follows (measured in hours): RA - 8,462 (legacy 1,454); DFD - 11,388 (legacy 899); AP - 2,335 (legacy 339); Engine Instruments - 4,726 (legacy 2,336). In addition, by replacing these components, the Air Force expects to realize approximately \$8.5M annually (or \$440M total) in cost avoidance relative to system repair costs. Program of record: 400 C-135 aircraft (396 KC-135R/T, 4 Special Purpose), 19 pilot simulators and 5 cockpit simulators with Block 45. The Block 45 program's associated Research Development Test and Evaluation funding (PE 0401218F) modified two prototype aircraft. The remaining 398 aircraft will be funded with APAF. This program has associated initial spares funding in BA 06.

Milestone/Development Status

Developmental Test & Evaluation completed March 2013. Milestone C approval received July 25 2013.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	42.606	25.846	31.394	-	31.394	28.181	25.743	23.726	27.352
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.276	14.558	17.613	-	17.613	19.578	19.544	22.940	20.204
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.463	6.687	8.163	-	8.163	9.555	8.579	7.831	7.994
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	61.345	47.091	57.170	-	57.170	57.314	53.866	54.497	55.550

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C13500 / C-135					Modification Number / Title: 8653 / BLOCK 45			
Models of Systems Affected: KC-135				Modification Type: Capability Improvement				Related RDT&E PEs: 0401218F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Block 45</i>													
A Kits													
Recurring													
Block 45:INSTALL KITS Group A (Active)	18 / 1.873	11 / 0.959	11 / 0.786	11 / 0.801	- / -	11 / 0.801	12 / 0.891	12 / 0.860	13 / 0.941	11 / 0.780	61 / 4.469	160 / 12.360	
Block 45:INSTALL KITS Group A (Guard)	12 / 1.596	13 / 1.133	13 / 0.929	13 / 0.946	- / -	13 / 0.946	16 / 1.188	15 / 1.076	19 / 1.375	13 / 0.920	62 / 4.533	176 / 13.696	
Block 45:INSTALL KITS Group A (Reserve)	4 / 0.532	6 / 0.523	6 / 0.429	6 / 0.437	- / -	6 / 0.437	8 / 0.594	6 / 0.430	6 / 0.434	6 / 0.425	14 / 1.015	62 / 4.819	
<i>Subtotal: Recurring</i>	- / 4.001	- / 2.615	- / 2.144	- / 2.184	- / -	- / 2.184	- / 2.673	- / 2.366	- / 2.750	- / 2.125	- / 10.017	- / 30.875	
B Kits													
Recurring													
Block 45:EQUIPMENT Group B (Active)	18 / 10.239	11 / 7.621	11 / 7.621	11 / 7.821	- / -	11 / 7.821	12 / 8.760	12 / 8.910	13 / 9.919	11 / 8.543	61 / 50.313	160 / 119.747	
Block 45:EQUIPMENT Group B (Guard)	12 / 6.975	13 / 8.980	13 / 9.006	13 / 9.315	- / -	13 / 9.315	16 / 11.715	15 / 11.141	19 / 14.497	13 / 10.072	62 / 50.985	176 / 132.686	
Block 45:EQUIPMENT Group B (Reserve)	4 / 2.325	6 / 4.149	6 / 4.156	6 / 4.266	- / -	6 / 4.266	8 / 5.845	6 / 4.485	6 / 4.570	6 / 4.659	14 / 11.391	62 / 45.846	
<i>Subtotal: Recurring</i>	- / 19.539	- / 20.750	- / 20.783	- / 21.402	- / -	- / 21.402	- / 26.320	- / 24.536	- / 28.986	- / 23.274	- / 112.689	- / 298.279	
<i>Subtotal: Block 45</i>	- / 23.540	- / 23.365	- / 22.927	- / 23.586	- / -	- / 23.586	- / 28.993	- / 26.902	- / 31.736	- / 25.399	- / 122.706	- / 329.154	
<i>Subtotal: Procurement, All Modification Items</i>	- / 23.540	- / 23.365	- / 22.927	- / 23.586	- / -	- / 23.586	- / 28.993	- / 26.902	- / 31.736	- / 25.399	- / 122.706	- / 329.154	
Support (All Modification Items)													
Change Orders	- / 8.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.002	
Data	- / 0.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.662	- / 3.312	
SIM/TRAINER	4 / 12.339	3 / 6.328	4 / 0.863	7 / 10.036	- / -	7 / 10.036	2 / 5.175	- / 3.634	3 / 0.736	1 / 5.354	- / 3.961	24 / 48.426	
SUPPORT-EQUIP	- / 0.047	- / 0.121	- / 0.132	- / 0.136	- / -	- / 0.136	- / 0.140	- / 0.144	- / -	- / -	- / -	- / 0.720	
OTHER GOVT	- / 10.277	- / 25.924	- / 13.376	- / 16.498	- / -	- / 16.498	- / 16.491	- / 16.192	- / 16.097	- / 15.986	- / 35.061	- / 115.902	
PMA - Contractor Services	- / 1.471	- / 0.407	- / 0.397	- / 0.408	- / -	- / 0.408	- / 0.420	- / 0.432	- / 0.300	- / 0.305	- / 1.663	- / 5.803	
PMA - Other Gov't Costs	- / 0.081	- / 0.060	- / 0.150	- / 0.072	- / -	- / 0.072	- / 0.074	- / 0.076	- / 0.078	- / 0.081	- / 0.439	- / 1.111	
<i>Subtotal: Support</i>	4 / 32.867	3 / 32.840	4 / 14.918	7 / 17.150	- / -	7 / 17.150	2 / 12.300	- / 10.478	3 / 7.211	1 / 11.726	- / 43.786	24 / 183.276	
Installation													
<i>Modification Item 1 of 1: Block 45</i>	15 / 8.434	13 / 5.140	22 / 9.246	38 / 16.434	- / -	38 / 16.434	36 / 16.021	36 / 16.486	33 / 15.550	38 / 18.425	167 / 88.279	398 / 194.015	
<i>Subtotal: Installation</i>	15 / 8.434	13 / 5.140	22 / 9.246	38 / 16.434	- / -	38 / 16.434	36 / 16.021	36 / 16.486	33 / 15.550	38 / 18.425	167 / 88.279	398 / 194.015	
Total													
Total Cost (Procurement + Support + Installation)	64.841	61.345	47.091	57.170	-	57.170	57.314	53.866	54.497	55.550	254.771	706.445	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 8653 / BLOCK 45

Modification Item 1 of 1: Block 45

Manufacturer Information

Manufacturer Name: Rockwell Collins	Manufacturer Location: Cedar Rapids, IA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 8

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Aug 2015	May 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates	Apr 2016	Jan 2017	Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	15 / 8.434	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 8.434
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 8.434	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 8.434

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	8	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	13 / 5.140	6 / 2.522	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 7.662
FY 2015	- / -	- / -	16 / 6.724	14 / 6.053	- / -	14 / 6.053	- / -	- / -	- / -	- / -	- / -	30 / 12.777

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 8653 / BLOCK 45

Modification Item 1 of 1: Block 45

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	24 / 10.381	- / -	24 / 10.381	6 / 2.670	- / -	- / -	- / -	- / -	30 / 13.051
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	30 / 13.351	- / -	- / -	- / -	- / -	30 / 13.351
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 16.486	- / -	- / -	- / -	36 / 16.486
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 15.550	- / -	- / -	33 / 15.550
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 18.425	- / -	38 / 18.425
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 14.968	30 / 14.968
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	137 / 73.311	137 / 73.311
Total	- / -	13 / 5.140	22 / 9.246	38 / 16.434	- / -	38 / 16.434	36 / 16.021	36 / 16.486	33 / 15.550	38 / 18.425	167 / 88.279	383 / 185.581

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	3	3	3	4	4	4	7	7	9	10	9	10	9	9	9	9	9	9	9	9	9	8	8	8	9	10	9	10	167	383
Out	0	-	3	3	3	4	4	4	7	7	9	10	9	10	9	9	9	9	9	9	9	9	9	8	8	8	9	10	9	177	383

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C13500 / C-135					Modification Number / Title: 9826 / Rudder Position Indicator (RPI)			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	4.903	-	4.903	5.978	6.124	6.267	5.137	0.876	29.285
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	4.903	-	4.903	5.978	6.124	6.267	5.137	0.876	29.285
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	4.903	-	4.903	5.978	6.124	6.267	5.137	0.876	29.285

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

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

Description:

This program, P-3A Mod 9826, Rudder Position Indicator (RPI), is a new start.

The Rudder Position Indicator (RPI) addresses crew situational awareness for the actual rudder position. Currently, there are no means to determine actual rudder position within the cockpit. The program installs a display on each side of the cockpit showing the actual and commanded rudder position and will visually identify differences to the crew. The RPI program of record is 320 KC-135 R/T aircraft and will be funded with APAF.

Milestone/Development Status

Program is working toward Material Development Decision.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.015	-	4.015	2.851	3.032	2.982	2.411
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.634	-	0.634	2.306	2.281	2.362	1.977
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.254	-	0.254	0.821	0.811	0.923	0.749
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	4.903	-	4.903	5.978	6.124	6.267	5.137

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C13500 / C-135					Modification Number / Title: 9826 / Rudder Position Indicator (RPI)			
Models of Systems Affected: KC-135				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: RPI</i>													
A Kits													
Recurring													
RPI:INSTALL KITS Group A (Active)	- / -	- / -	- / -	14 / 0.227	- / -	14 / 0.227	29 / 0.484	31 / 0.530	28 / 0.490	23 / 0.414	- / -	125 / 2.145	
RPI:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	15 / 0.244	- / -	15 / 0.244	34 / 0.568	32 / 0.547	34 / 0.595	27 / 0.486	- / -	142 / 2.440	
RPI:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	6 / 0.098	- / -	6 / 0.098	12 / 0.200	12 / 0.205	13 / 0.227	10 / 0.180	- / -	53 / 0.910	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.569	- / -	- / 0.569	- / 1.252	- / 1.282	- / 1.312	- / 1.080	- / -	- / 5.495	
B Kits													
Recurring													
RPI:EQUIPMENT Group B (Active)	- / -	- / -	- / -	14 / 0.365	- / -	14 / 0.365	29 / 0.777	31 / 0.856	28 / 0.796	23 / 0.674	- / -	125 / 3.468	
RPI:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	15 / 0.390	- / -	15 / 0.390	34 / 0.912	32 / 0.884	34 / 0.967	27 / 0.791	- / -	142 / 3.944	
RPI:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	6 / 0.156	- / -	6 / 0.156	12 / 0.321	12 / 0.331	13 / 0.370	10 / 0.293	- / -	53 / 1.471	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.911	- / -	- / 0.911	- / 2.010	- / 2.071	- / 2.133	- / 1.758	- / -	- / 8.883	
<i>Subtotal: RPI</i>	- / -	- / -	- / -	- / 1.480	- / -	- / 1.480	- / 3.262	- / 3.353	- / 3.445	- / 2.838	- / -	- / 14.378	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 1.480	- / -	- / 1.480	- / 3.262	- / 3.353	- / 3.445	- / 2.838	- / -	- / 14.378	
Support (All Modification Items)													
Change Orders	- / -	- / -	- / -	- / 0.195	- / -	- / 0.195	- / 0.200	- / 0.205	- / 0.210	- / 0.215	- / -	- / 1.025	
Data	- / -	- / -	- / -	- / 0.125	- / -	- / 0.125	- / -	- / -	- / -	- / 0.200	- / -	- / 0.325	
SIM/TRAINER	- / -	- / -	- / -	19 / 2.464	- / -	19 / 2.464	- / -	- / -	- / -	- / -	- / -	19 / 2.464	
PMA - Contractor Services	- / -	- / -	- / -	- / 0.250	- / -	- / 0.250	- / 0.250	- / 0.250	- / 0.250	- / 0.250	- / -	- / 1.250	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.015	- / -	- / 0.015	- / 0.015	- / 0.015	- / 0.015	- / 0.015	- / -	- / 0.075	
OTHER GOVT	- / -	- / -	- / -	- / 0.374	- / -	- / 0.374	- / 0.375	- / 0.425	- / 0.471	- / 0.118	- / -	- / 1.763	
<i>Subtotal: Support</i>	- / -	- / -	- / -	19 / 3.423	- / -	19 / 3.423	- / 0.840	- / 0.895	- / 0.946	- / 0.798	- / -	19 / 6.902	
Installation													
<i>Modification Item 1 of 1: RPI</i>	- / -	- / -	- / -	- / -	- / -	- / -	75 / 1.876	75 / 1.876	75 / 1.876	60 / 1.501	35 / 0.876	320 / 8.005	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	75 / 1.876	75 / 1.876	75 / 1.876	60 / 1.501	35 / 0.876	320 / 8.005	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	4.903	-	4.903	5.978	6.124	6.267	5.137	0.876	29.285	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 9826 / Rudder Position Indicator (RPI)

Modification Item 1 of 1: RPI

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jul 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates			Oct 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.876	- / -	- / -	- / -	- / -	35 / 0.876
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.000	35 / 0.875	- / -	- / -	- / -	75 / 1.875
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.001	35 / 0.876	- / -	- / -	75 / 1.877
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.000	35 / 0.876	- / -	75 / 1.876
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.625	35 / 0.876	60 / 1.501
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	75 / 1.876	75 / 1.876	75 / 1.876	60 / 1.501	35 / 0.876	320 / 8.005

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	18	19	19	19	19	19	19	18	19	19	19	18	15	15	15	15	35	320
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	19	19	19	19	19	19	18	19	19	19	18	15	15	65	320

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: CALL00 / COMPASS CALL Mods
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207253F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	82.628	96.990	130.257	-	130.257	101.982	45.511	37.259	37.946	5.500	538.073
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	82.628	96.990	130.257	-	130.257	101.982	45.511	37.259	37.946	5.500	538.073
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	82.628	96.990	130.257	-	130.257	101.982	45.511	37.259	37.946	5.500	538.073

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

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

Description:

The FY 2017 funding request was reduced by \$7.397 million to account for availability of prior year execution balances.

FY 2015 funding totals include \$24.8M for Overseas Contingency Operations.

The EC-130H COMPASS CALL aircraft is the USAF's wide-area coverage Airborne Electronic Attack (AEA) and Offensive Counter Information (OCI) weapon system. The mission equipment must continue to evolve to keep pace with the emerging adversary developments in new communications and sensor technology as well as the use of rapidly advancing commercial technology. Production funds are required for modification kit production (hardware, firmware and software) and installation of the systems and subsystems on each aircraft.

The current EC-130H COMPASS CALL program of record inventory at the beginning of FY 2017 will include the following resources: 15 EC-130H total active inventory (TAI) -- 10 aircraft are primary mission aircraft inventory (PMAI), four aircraft are Backup Aircraft Inventory (BAI), and one aircraft is a NEC-130H primary development/test aircraft inventory (PDAI), one Weapon System Trainer (WST, a.k.a. flight deck simulator) and two COMPASS CALL Mission Crew Simulators (CCMCS). FY 2017 funding will procure Group A and Group B kits as well as installation of such hardware during the aircraft PDM/modification cycle as per the FY 2016 NDAA language. Obsolescence and Diminishing Manufacturing Sources (DMS)/Vanishing Vendor Items (VVI) logistics mitigation efforts are addressed with each baseline upgrade as well as annually as part of the sustainment responsibilities. The initial spares procurement funding in FY 2017 will be used to support the EC-130H mission in its theater of operations. Funding for this exhibit is contained in PE 0207253F.

The Air Force Corporate decision to divest half of the EC-130H COMPASS CALL fleet in FY 2016 has been deferred to FY 2019. The acquisition program manager will, however, retire one TC-130 flight deck trainer (BAI aircraft) in FY 2016 due to PDM requirements. The FY 2017 funding increase of \$103.5M restores the funding levels required to "buy back" the six Baseline 1 configured EC-130H (PMAI aircraft) identified for divestiture in FY 2016. This additional funding will allow the acquisition program manager to modify and sustain ten EC-130H COMPASS CALL aircraft to a Baseline 2/Mid-Baseline 2 configuration.

The EC-130H COMPASS CALL Program is managed by the 645 AESG (BIG SAFARI Systems Program Office or SPO). Funding for this exhibit is contained in PE 0207253F.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
CALL00 / COMPASS CALL Mods

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207253F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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	1001 / COMPASS CALL (Capability Improvement)			- / -	- / 82.628	- / 70.591	- / 25.452	- / -	- / 25.452
P-3a	1003 / COMPASS CALL Baseline 3 (Capability Improvement)			- / -	- / -	- / 26.399	- / 104.805	- / -	- / 104.805
P-40	Total Gross/Weapon System Cost			- / -	- / 82.628	- / 96.990	- / 130.257	- / -	- / 130.257

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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	1001 / COMPASS CALL (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 178.671
P-3a	1003 / COMPASS CALL Baseline 3 (Capability Improvement)			- / 101.982	- / 45.511	- / 37.259	- / 37.946	- / 5.500	- / 359.402
P-40	Total Gross/Weapon System Cost			- / 101.982	- / 45.511	- / 37.259	- / 37.946	- / 5.500	- / 538.073

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: CALL00 / COMPASS CALL Mods				Modification Number / Title: 1001 / COMPASS CALL				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	82.628	70.591	25.452	-	25.452	-	-	-	-	-	178.671
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	82.628	70.591	25.452	-	25.452	-	-	-	-	-	178.671
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	82.628	70.591	25.452	-	25.452	-	-	-	-	-	178.671

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

Initial Spares (<i>\$ in Millions</i>)	-	12.458	10.128	24.572	-	24.572	-	-	-	-	-	47.158
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The EC-130H COMPASS CALL aircraft is the USAF's wide-area, airborne Command and Control Warfare/Information Operations (C2W/IO) weapon system. The mission equipment must continue to evolve to keep pace with emerging adversary developments in new communications and sensor technology as well as use of rapidly advancing commercial technology. The EC-130H COMPASS CALL program employs an incremental baseline upgrade acquisition strategy that puts capability into the warfighter's hands as soon as practical and ensures each iteration of the weapon system is effective against the highest priority threats. A new baseline of capability is fielded approximately every three years. Capabilities inserted into each baseline are planned in advance, based on war-fighter inputs. Executive Management Reviews are held to review and "lock" baseline content as production nears. Kit components contracted for purchase and integration in a given baseline upgrade are bought in the first year of the procurement funding cycle and are installed in the next year. Production funds are required for modification kit production (hardware, firmware, and software) and installation on each aircraft based on a baseline upgrade cyclic schedule.

Six Mid-Baseline 1 configured aircraft and four Baseline 2 configured aircraft are currently fielded (as of 4th Quarter, FY 2015), plus five aircraft are in programmed depot maintenance (PDM) receiving the Mid-Baseline 2 and avionics viability program (AVP, a.k.a. glass cockpit) upgrade modifications. With each baseline, efforts focus on reliability and sustainability improvements, significant obsolete parts replacement, weight reduction, operator/maintenance simplification of primary mission equipment (PME) operations, and capability increases. Some examples are procurement of digital narrow band subsystem, counter radar subsystem, and 3rd Generation Special Purpose Emitter Array (SPEAR) system. Production funds are also used for avionics modifications to meet Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) requirements and address avionics obsolescence issues. Similarly, baseline upgrades and enhancements will include necessary support equipment and training device/simulator modifications. The simulators replicate the fielded aircraft configurations, provide training and qualification of aircrew and ground personnel, and address training and certification obsolescence issues. Due to the rapidly changing threat environment encountered during our prolonged commitment to Overseas Contingency Operations (OCO), the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander requirements through integrating Quick Reaction Capability (QRC) kits and other priority efforts. Equipment includes aircraft and PME retrofits based on the PDM and modification cyclic schedule. Program of record at the beginning of FY 2017 will include the following resources: 15 EC-130H total active inventory (TAI) -- 10 aircraft are primary mission aircraft inventory (PMAI), four aircraft are Backup Aircraft Inventory (BAI), and one aircraft is an NEC-130H primary development/test aircraft inventory (PDAI), one Weapon System Trainer (WST, a.k.a. flight deck simulator) and two COMPASS CALL Mission Crew Simulators (CCMCS). Two non-mission capable aircraft associated with the COMPASS CALL program were retired in FY 2016: TC-130H, 65-00962, and C-130E, 64-14859. FY 2017 funding will procure Group A and Group B kits as well as installation of such hardware, firmware and software during the aircraft PDM/modification cycle as per the FY 2016 NDAA language.

Funding for this exhibit is contained in PE 0207253F.

Milestone/Development Status

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: CALL00 / COMPASS CALL Mods	Modification Number / Title: 1001 / COMPASS CALL
<p>The EC-130H COMPASS CALL weapon system is continuously improved using a rapid development and acquisition process supporting a baseline upgrade strategy. User needs and technology opportunities are continuously reviewed and a new mission equipment baseline is defined approximately every 36 months. By the first quarter of FY 2017, five PMAI EC-130H COMPASS CALL aircraft and one PDAI NEC-130H Test Aircraft will be in the Mid Baseline 2 configuration.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 **P-1 Line Item Number / Title:** CALL00 / COMPASS CALL Mods **Modification Number / Title:** 1001 / COMPASS CALL

Models of Systems Affected: EC-130H, NEC-130H, TC-130H **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0207253F

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: Baseline 2</i>												
A Kits												
Recurring												
Baseline 2:INSTALL KITS Group A (Active)	- / -	1 / 14.187	4 / 29.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 44.087
<i>Subtotal: Recurring</i>	- / -	- / 14.187	- / 29.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.087
B Kits												
Recurring												
Baseline 2:EQUIPMENT Group B (Active)	- / -	1 / 34.559	2 / 26.350	1 / 13.175	- / -	1 / 13.175	- / -	- / -	- / -	- / -	- / -	4 / 74.084
<i>Subtotal: Recurring</i>	- / -	- / 34.559	- / 26.350	- / 13.175	- / -	- / 13.175	- / -	- / -	- / -	- / -	- / -	- / 74.084
<i>Subtotal: Baseline 2</i>	- / -	- / 48.746	- / 56.250	- / 13.175	- / -	- / 13.175	- / -	- / -	- / -	- / -	- / -	- / 118.171
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 48.746	- / 56.250	- / 13.175	- / -	- / 13.175	- / -	- / -	- / -	- / -	- / -	- / 118.171
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / -	- / 10.266	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.266
GROUP B: TOTAL NONRECURRING	- / -	- / 11.327	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.327
PMA - Other Gov't Costs	- / -	- / 1.067	- / 1.488	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.555
SUPPORT-EQUIP	- / -	- / 0.371	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.371
<i>Subtotal: Support</i>	- / -	- / 23.031	- / 1.488	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.519
Installation												
<i>Modification Item 1 of 1: Baseline 2</i>												
<i>Subtotal: Installation</i>	- / -	1 / 10.851	2 / 12.853	2 / 12.277	- / -	2 / 12.277	- / -	- / -	- / -	- / -	- / -	5 / 35.981
<i>Subtotal: Installation</i>	- / -	1 / 10.851	2 / 12.853	2 / 12.277	- / -	2 / 12.277	- / -	- / -	- / -	- / -	- / -	5 / 35.981
Total												
Total Cost (Procurement + Support + Installation)	-	82.628	70.591	25.452	-	25.452	-	-	-	-	-	178.671

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: CALL00 / COMPASS CALL Mods	Modification Number / Title: 1001 / COMPASS CALL

Modification Item 1 of 1: Baseline 2

Manufacturer Information

Manufacturer Name: L-3 Communications	Manufacturer Location: Waco, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 9

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015					
Delivery Dates	Sep 2015	Sep 2016					

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	1 / 10.851	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 10.851
FY 2016	- / -	- / -	2 / 12.853	2 / 12.277	- / -	2 / 12.277	- / -	- / -	- / -	- / -	- / -	4 / 25.130
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	1 / 10.851	2 / 12.853	2 / 12.277	- / -	2 / 12.277	- / -	- / -	- / -	- / -	- / -	5 / 35.981

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	1	-	-	-	1	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	-	-	-	1	1	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force								Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: CALL00 / COMPASS CALL Mods				Modification Number / Title: 1003 / COMPASS CALL Baseline 3			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	26.399	104.805	-	104.805	101.982	45.511	37.259	37.946	5.500	359.402
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	26.399	104.805	-	104.805	101.982	45.511	37.259	37.946	5.500	359.402
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	26.399	104.805	-	104.805	101.982	45.511	37.259	37.946	5.500	359.402

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	25.212	10.705	10.891	11.092	-	57.900
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The EC-130H COMPASS CALL is the USAF's wide-area, airborne Command and Control Warfare/Information Operations (C2W/IO) weapon system. The mission equipment must continue to evolve to keep pace with emerging adversary developments in new communications and sensor technology as well as use of rapidly advancing commercial technology. The EC-130H COMPASS CALL program employs an incremental baseline upgrade acquisition strategy that puts capability into the warfighter's hands as soon as practical and ensures each iteration of the weapon system is effective against the highest priority threats. A new baseline of capability is fielded approximately every three years. Capabilities inserted into each baseline are planned in advance, based on warfighter inputs. Executive Management Reviews are held to review and "lock" baseline content as production nears. Kit components contracted for purchase and integration in a given baseline upgrade are bought in the first year of the procurement funding cycle and are installed in the next year. Production funds are required for modification kit production (hardware, firmware, and software) and installation on each aircraft based on a baseline upgrade cyclic schedule.

Baseline aircraft modifications will continue to address reliability and sustainability improvements, weight reduction, as well as capability increases. Baseline 3 will include, but is not limited to, new receiver suite, digital intercom and improved external communications. Subsequent modifications for Large Aircraft Infrared Counter Measures (LAIRCM) and Avionics are also included with the fielded aircraft. Similarly, new baselines will include necessary support equipment and simulator modifications. The simulators replicate the current aircraft configurations and address training obsolescence issues. Due to the rapidly changing threat environment encountered during our prolonged commitment to Overseas Contingency Operations (OCO), the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander requirements through QRC kits. Equipment includes aircraft and mission equipment retrofits based on the PDM and modification cyclic schedule. Program of record at the beginning of FY 2017 will include the following resources: 15 EC-130H total active inventory (TAI) -- 10 aircraft are primary mission aircraft inventory (PMAI), four aircraft are Backup Aircraft Inventory (BAI), and one aircraft is an NEC-130H primary development/test aircraft inventory (PDAI), one Weapon System Trainer (WST, a.k.a. flight deck simulator) and two COMPASS CALL Mission Crew Simulators (CCMCS). Two non-mission capable aircraft associated with the COMPASS CALL program were retired in FY 2016: TC-130H, 65-00962, and C-130E, 64-14859. FY 2017 funding will procure Group A and Group B kits as well as installation of such hardware during the aircraft PDM/modification cycle as per the FY 2016 NDAA language. Obsolescence and Diminishing Manufacturing Sources (DMS)/Vanishing Vendor Items (VVI) logistics mitigation efforts are addressed with each baseline upgrade as well as annually as part of the sustainment responsibilities.

Funding for this exhibit is contained in PE 0207253F.

Due to rapid advances in electronic attack technology, the EC-130H COMPASS CALL was designed to be easily modified and must continue to modernize and evolve to keep pace with adversary tactics and emerging technologies. Continuous system development is required to maintain battlespace superiority.

Milestone/Development Status

The EC-130H COMPASS CALL weapon system is continuously improved using a rapid development and acquisition process supporting a baseline upgrade strategy. User needs and technology opportunities are continuously reviewed and a new mission equipment baseline is defined approximately every 36 months. The EC-130H COMPASS CALL Baseline 3 configuration will begin initial fielding in late FY 2018. Eight EC-130H COMPASS CALL mission aircraft are projected to receive the Baseline 3/Mid Baseline 3 configuration upgrades through FY 2023.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force								Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: CALL00 / COMPASS CALL Mods				Modification Number / Title: 1003 / COMPASS CALL Baseline 3					
Models of Systems Affected: EC-130H, NEC-130H			Modification Type: Capability Improvement				Related RDT&E PEs: 0207253F						
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Baseline 3</i>													
A Kits													
Recurring													
Baseline 3:INSTALL KITS Group A (Active)													
	- / -	1 / -	- / -	2 / 23.600	- / -	2 / 23.600	2 / 22.000	1 / 11.000	1 / 9.700	1 / 5.107	- / -	8 / 71.407	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / 23.600	- / -	- / 23.600	- / 22.000	- / 11.000	- / 9.700	- / 5.107	- / -	- / 71.407	
B Kits													
Recurring													
Baseline 3:EQUIPMENT Group B (Active)													
	- / -	1 / -	- / -	2 / 44.000	- / -	2 / 44.000	2 / 38.000	1 / 15.800	1 / 15.214	1 / 10.107	- / -	8 / 123.121	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / 44.000	- / -	- / 44.000	- / 38.000	- / 15.800	- / 15.214	- / 10.107	- / -	- / 123.121	
<i>Subtotal: Baseline 3</i>													
	- / -	- / -	- / -	- / 67.600	- / -	- / 67.600	- / 60.000	- / 26.800	- / 24.914	- / 15.214	- / -	- / 194.528	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / -	- / -	- / -	- / 67.600	- / -	- / 67.600	- / 60.000	- / 26.800	- / 24.914	- / 15.214	- / -	- / 194.528	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING													
	- / -	- / -	- / 10.700	- / 10.700	- / -	- / 10.700	- / 10.700	- / 4.730	- / 1.500	- / 3.626	- / -	- / 41.956	
GROUP B: TOTAL NONRECURRING													
	- / -	- / -	- / 17.716	- / 19.884	- / -	- / 19.884	- / 12.832	- / 5.300	- / 2.000	- / 6.100	- / -	- / 43.832	
PMA - Other Gov't Costs													
	- / -	- / -	- / -	- / 1.488	- / -	- / 1.488	- / 1.264	- / 1.549	- / 1.580	- / 1.580	- / -	- / 7.461	
SUPPORT-EQUIP													
	- / -	- / -	- / 15.439	- / 12.980	- / -	- / 12.980	- / 5.000	- / 1.000	- / 1.000	- / 3.100	- / -	- / 18.519	
SIM/TRAINER													
	- / -	- / -	- / 12.544	- / 10.500	- / -	- / 10.500	- / 1.186	- / 0.632	- / 0.765	- / 2.826	- / -	- / 8.453	
<i>Subtotal: Support</i>													
	- / -	- / -	- / 26.399	- / 25.552	- / -	- / 25.552	- / 30.982	- / 13.211	- / 6.845	- / 17.232	- / -	- / 120.221	
Installation													
<i>Modification Item 1 of 1: Baseline 3</i>													
	- / -	- / -	- / -	2 / 11.653	- / -	2 / 11.653	2 / 11.000	1 / 5.500	1 / 5.500	1 / 5.500	1 / 5.500	8 / 44.653	
<i>Subtotal: Installation</i>													
	- / -	- / -	- / -	2 / 11.653	- / -	2 / 11.653	2 / 11.000	1 / 5.500	1 / 5.500	1 / 5.500	1 / 5.500	8 / 44.653	
Total													
Total Cost (Procurement + Support + Installation)													
	-	-	26.399	104.805	-	104.805	101.982	45.511	37.259	37.946	5.500	359.402	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: CALL00 / COMPASS CALL Mods	Modification Number / Title: 1003 / COMPASS CALL Baseline 3

Modification Item 1 of 1: Baseline 3

Manufacturer Information

Manufacturer Name: L-3Communications	Manufacturer Location: Waco, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 9

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014		Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates	Sep 2015		Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	1 / 5.500	- / -	1 / 5.500	- / -	- / -	- / -	- / -	- / -	1 / 5.500
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	1 / 6.153	- / -	1 / 6.153	1 / 5.500	- / -	- / -	- / -	- / -	2 / 11.653
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.500	1 / 5.500	- / -	- / -	- / -	2 / 11.000
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.500	- / -	- / -	1 / 5.500
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.500	- / -	1 / 5.500
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.500	1 / 5.500
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 11.653	- / -	2 / 11.653	2 / 11.000	1 / 5.500	1 / 5.500	1 / 5.500	1 / 5.500	8 / 44.653

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	0	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	1	-	1	-	-	-	1	-	-	-	1	-	-	1	-	-	1	1	8
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1	-	-	1	-	-	1	-	-	1	2	8	

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

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

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	163.346	165.715	211.438	-	211.438	201.237	184.779	188.189	191.658	-	1,306.362
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	163.346	165.715	211.438	-	211.438	201.237	184.779	188.189	191.658	-	1,306.362
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	163.346	165.715	211.438	-	211.438	201.237	184.779	188.189	191.658	-	1,306.362

(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 2015 funding totals includes a Congressional Add of \$10.6M for baseline modernization shortfalls.

FY 2016 funding totals includes a Congressional Add of \$9.8M for baseline modernization shortfalls.

The USAF's Manned Reconnaissance Systems program includes 17 RC-135 V/W RIVET JOINT, three RC-135S COBRA BALL, and two RC-135U COMBAT SENT mission aircraft performing Air Combat Command (ACC) operational missions. The RC-135V/W RIVET JOINT is the majority variant that drives the Baseline integration and modification upgrade strategy for the entire RC-135 fleet. Therefore, the majority of the modification budget is directly related to the RIVET JOINT weapon system baseline strategy enhancements which subsequently transfers into the follow-on baseline strategy enhancements for COBRA BALL and COMBAT SENT weapon systems.

A 2008 RC-135 Viability Assessment reported that despite the fleet average airframe age (44 years) and accumulated flight hours (38,000) as of the end of FY 2007, the RC-135 should be able to continue to meet the user's needs by performing intended operations through at least 2040. Viability was assessed based on underlying analyses of reliability, maintainability, performance, corrosion, fatigue, architectural stability, safety and availability. The Viability Assessment also summarized that the RC-135 fleet has experienced significant improvements in reliability, maintainability and availability since FY 2001. The Program Manager attributes these improvements directly to the 645 AESG Baseline integration and modification upgrade strategy and synergies gained with long standing relationships with the RC-135 industry partners.

FY 2017 procurement funding efforts will concentrate on completing the conversion of the RIVET JOINT aircraft from a Baseline 10 to Baseline 12 configuration. A total of nine RIVET JOINT aircraft are projected to become Baseline 12 configured. During this same period, the COBRA BALL and the COMBAT SENT aircraft will concentrate on completing the conversion of the Baseline 4 to the Baseline 5 configuration (COBRA BALL and COMBAT SENT Baseline 5 configurations most closely align with the RIVET JOINT Baseline 11 configuration). Additionally, FY 2017 procurement funding will ensure integration and fielding of the RC-135 ground systems to include RIVET JOINT Mission Trainers (RJMT), Ground Data Processing Systems (GDPS), Distributed Mission Shelters (DMS), Mission Crew Training Systems (MCTS), Airborne Capabilities Extension System (ACES) and Operational Flight Trainers (OFT). The ground systems are upgraded to remain consistent with the fielded aircraft configurations to allow for training and qualification of the aircrew and maintenance personnel assigned plus verifications and certifications of software builds that are continuously in the works for addressing the dynamic mission requirements of these weapon systems. The RIVET JOINT Baselines 11, 12 and soon 13 integration efforts address the 2012 RC-135 Multi-Attribute Utility Assessment (MUA) that detailed operational effectiveness, cost and program analyses of the alternative weapon system configurations. The MUA determined that retaining and sustaining the RC-135V/W airframe offers the highest assessed weapons system utility (measured as a benefit of cost-to-risk ratio) over the 25 year assessment period.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: DARP01 / RC-135
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305207F
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	

Funding for this exhibit is contained in PE 0305207F, Manned Reconnaissance Systems.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft **P-1 Line Item Number / Title:**
DARP01 / RC-135

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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	2504 / COBRA BALL (Capability Improvement)			- / -	- / 6.062	- / 6.144	- / 6.325	- / -	- / 6.325
P-3a	4263 / RIVET JOINT (Capability Improvement)			- / -	- / 146.745	- / 152.938	- / 184.385	- / -	- / 184.385
P-3a	4265 / COMBAT SENT (Capability Improvement)			- / -	- / 10.539	- / 6.633	- / 20.728	- / -	- / 20.728
P-40	Total Gross/Weapon System Cost			- / -	- / 163.346	- / 165.715	- / 211.438	- / -	- / 211.438

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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	2504 / COBRA BALL (Capability Improvement)			- / 6.637	- / 6.776	- / 6.898	- / 7.022	- / -	- / 45.864
P-3a	4263 / RIVET JOINT (Capability Improvement)			- / 187.807	- / 171.169	- / 174.334	- / 177.554	- / -	- / 1,194.932
P-3a	4265 / COMBAT SENT (Capability Improvement)			- / 6.793	- / 6.834	- / 6.957	- / 7.082	- / -	- / 65.566
P-40	Total Gross/Weapon System Cost			- / 201.237	- / 184.779	- / 188.189	- / 191.658	- / -	- / 1,306.362

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

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

Justification:

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: DARP01 / RC-135				Modification Number / Title: 2504 / COBRA BALL				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	6.062	6.144	6.325	-	6.325	6.637	6.776	6.898	7.022	-	45.864
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	6.062	6.144	6.325	-	6.325	6.637	6.776	6.898	7.022	-	45.864
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	6.062	6.144	6.325	-	6.325	6.637	6.776	6.898	7.022	-	45.864

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

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

Description:

FY 2017 procurement funding acquires and installs various upgrade and enhancement modifications for the three RC-135S COBRA BALL aircraft performing Air Combat Command (ACC) directed operational missions.

The RC-135S COBRA BALL program (DARP/Manned Reconnaissance Systems) is managed as an incremental baseline upgrade acquisition strategy in order to maintain collection parity with evolving and emerging adversarial weapons systems utilized by state and non-state actors. The 645 AESG Baseline upgrade strategy requires purchase agreements for long lead items that take approximately 10 to 12 months from contract award to delivery. Items required for integration in a given Baseline upgrade are contracted for purchase in the first year of the procurement funding cycle and are acquired and installed in the subsequent year. This acquisition strategy has been successful in maintaining critical combat capability in the ISR arena over the last 50 years.

FY 2017 procurement funding efforts will concentrate on the initiatives pertaining to completing the COBRA BALL Baseline 5 enhancements. Baseline 5 subsystem upgrades consist of, but are not limited to, Wideband Global Satellite (WGS) reachback connectivity, aircraft intercom system replacement, improved operator interface and reporting tools, integration of the RIVET JOINT Baseline 11 communications intelligence (COMINT) suite, and enhancing capabilities in dense signal environments.

Funding for this exhibit contained in PE 0305207F.

Milestone/Development Status

FY 2017 procurement funding associated with the acquisition, integration, fielding and logistical support efforts for the Baseline 5 configuration upgrades and enhancements of the three RC-135S COBRA BALL aircraft, sensor systems, and associated ground support system are attributed to the development efforts initiated in FY 2015 and FY 2016 research & development funding initiatives. These initiatives formed the basis for the RC-135S COBRA BALL fleet modification strategy.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: DARP01 / RC-135					Modification Number / Title: 2504 / COBRA BALL			
Models of Systems Affected: RC-135S, TC-135W				Modification Type: Capability Improvement				Related RDT&E PEs: 0305207F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Baseline 5</i>													
A Kits													
Recurring													
Baseline 5:INSTALL KITS Group A (Active)													
	- / -	1 / 1.049	1 / 1.063	1 / 1.086	- / -	1 / 1.086	1 / 1.095	1 / 1.111	1 / 1.131	1 / 1.151	- / -	7 / 7.686	
<i>Subtotal: Recurring</i>													
	- / -	- / 1.049	- / 1.063	- / 1.086	- / -	- / 1.086	- / 1.095	- / 1.111	- / 1.131	- / 1.151	- / -	- / 7.686	
B Kits													
Recurring													
Baseline 5:EQUIPMENT Group B (Active)													
	- / -	1 / 1.516	1 / 1.558	1 / 1.623	- / -	1 / 1.623	1 / 1.834	1 / 1.867	1 / 1.901	1 / 1.995	- / -	7 / 12.294	
<i>Subtotal: Recurring</i>													
	- / -	- / 1.516	- / 1.558	- / 1.623	- / -	- / 1.623	- / 1.834	- / 1.867	- / 1.901	- / 1.995	- / -	- / 12.294	
<i>Subtotal: Baseline 5</i>													
	- / -	- / 2.565	- / 2.621	- / 2.709	- / -	- / 2.709	- / 2.929	- / 2.978	- / 3.032	- / 3.146	- / -	- / 19.980	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / -	- / 2.565	- / 2.621	- / 2.709	- / -	- / 2.709	- / 2.929	- / 2.978	- / 3.032	- / 3.146	- / -	- / 19.980	
Installation													
<i>Modification Item 1 of 1: Baseline 5</i>													
	- / -	1 / 3.497	1 / 3.523	1 / 3.616	- / -	1 / 3.616	1 / 3.708	1 / 3.798	1 / 3.866	1 / 3.876	- / -	7 / 25.884	
<i>Subtotal: Installation</i>													
	- / -	1 / 3.497	1 / 3.523	1 / 3.616	- / -	1 / 3.616	1 / 3.708	1 / 3.798	1 / 3.866	1 / 3.876	- / -	7 / 25.884	
Total													
Total Cost (Procurement + Support + Installation)	-	6.062	6.144	6.325	-	6.325	6.637	6.776	6.898	7.022	-	45.864	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 2504 / COBRA BALL

Modification Item 1 of 1: Baseline 5

Manufacturer Information

Manufacturer Name: L-3Communications	Manufacturer Location: Greenville, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates	Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	1 / 3.497	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.497
FY 2016	- / -	- / -	1 / 3.523	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.523
FY 2017	- / -	- / -	- / -	1 / 3.616	- / -	1 / 3.616	- / -	- / -	- / -	- / -	- / -	1 / 3.616
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.708	- / -	- / -	- / -	- / -	1 / 3.708
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.798	- / -	- / -	- / -	1 / 3.798
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.866	- / -	- / -	1 / 3.866
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.876	- / -	1 / 3.876
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	1 / 3.497	1 / 3.523	1 / 3.616	- / -	1 / 3.616	1 / 3.708	1 / 3.798	1 / 3.866	1 / 3.876	- / -	7 / 25.884

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-
Out	0	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: DARP01 / RC-135					Modification Number / Title: 4263 / RIVET JOINT	

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	146.745	152.938	184.385	-	184.385	187.807	171.169	174.334	177.554	-	1,194.932
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	146.745	152.938	184.385	-	184.385	187.807	171.169	174.334	177.554	-	1,194.932
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	146.745	152.938	184.385	-	184.385	187.807	171.169	174.334	177.554	-	1,194.932

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

Initial Spares (<i>\$ in Millions</i>)	-	57.119	51.958	47.734	-	47.734	49.396	49.927	50.848	51.785	-	358.767
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY 2015 funding totals include a \$10.6M Congressional Add for Baseline modernization shortfalls.

FY 2016 funding totals include a \$9.8M Congressional Add for Baseline modernization shortfalls.

FY 2017 procurement funding acquires and installs various upgrade and enhancement modifications for the seventeen RC-135V/W RIVET JOINT aircraft performing Air Combat Command (ACC) directed operational missions.

The RC-135V/W RIVET JOINT program (DARP/Manned Reconnaissance Systems) is managed as an incremental baseline upgrade acquisition strategy in order to maintain collection parity with an evolving threat environment. The BIG SAFARI Baseline upgrade strategy requires purchase agreements for long lead items that take approximately 10 to 12 months from contract award to delivery. Items required for integration in a given Baseline upgrade are contracted and purchased in the first year of the procurement funding cycle and are acquired and installed in the next year. This acquisition strategy has been successful in maintaining critical combat capability in the ISR arena over the last 50 years.

FY 2017 procurement funding will concentrate on sustainment of the fielded RIVET JOINT Baseline 11 configured aircraft, and the initial integration of RIVET JOINT Baseline 12 configured aircraft. Baseline 11 subsystem upgrades consist of, but are not limited to, precision multi-angle direction finding communications intelligence (DF COMINT) capability, electronic intelligence (ELINT) recorder expansion, precision ELINT digital SIGINT system (DSS) integration, wideband global satellite (WGS) enhanced integration, increased near real time (NRT) national tactical integration, continued CNS/ATM and RNP compliant cockpit avionics enhancements to include addressing any obsolescence issues, new steerable beam antenna, weight reduction phase 3, improved operator interface and reporting tools, and enhancing capabilities in dense signal environments. Baseline 12 subsystem upgrades consist of, but are not limited to, increased digital signal exploitation, increased digital signal recorder bandwidth, enhanced spatial processing/exploitation, enhanced weather radar, digitally enhanced electronic flight instrument system (EFIS), AF-DCGS interoperability, operator work station 3-D map projection, enhanced operator reporting management tools, modernized communications security (COMSEC) protocols, a new steerable beam antenna, and continued CNS/ATM and RNP compliant cockpit avionics enhancements to include addressing any obsolescence issues.

Funding for this exhibit contained in PE 0305207F.

Milestone/Development Status

FY 2017 procurement funding associated with acquisition, integration, fielding and logistical support efforts for the Baseline 11 and Baseline 12 configuration upgrades / enhancements of the RC-135V/W RIVET JOINT aircraft, sensor systems, and associated ground support system are attributed to the development efforts initiated in FY 2015 and FY 2016 research & development funding initiatives. These initiatives formed the basis for the RC-135V/W RIVET JOINT fleet modification strategy.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 4263 / RIVET JOINT

Models of Systems Affected: RC-135V, RC-135W, TC-135W	Modification Type: Capability Improvement	Related RDT&E PEs: 0305207F
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: Baseline 11</i>												
A Kits												
Recurring												
Baseline 11:INSTALL KITS Group A (Active)	- / -	4 / 11.781	4 / 12.160	4 / 12.315	- / -	4 / 12.315	4 / 12.881	4 / 13.339	4 / 13.579	4 / 13.823	- / -	28 / 89.878
<i>Subtotal: Recurring</i>	- / -	- / 11.781	- / 12.160	- / 12.315	- / -	- / 12.315	- / 12.881	- / 13.339	- / 13.579	- / 13.823	- / -	- / 89.878
B Kits												
Recurring												
Baseline 11:EQUIPMENT Group B (Active)	- / -	4 / 88.621	4 / 93.263	4 / 123.259	- / -	4 / 123.259	4 / 125.828	4 / 108.395	4 / 110.430	4 / 112.498	- / -	28 / 762.294
<i>Subtotal: Recurring</i>	- / -	- / 88.621	- / 93.263	- / 123.259	- / -	- / 123.259	- / 125.828	- / 108.395	- / 110.430	- / 112.498	- / -	- / 762.294
<i>Subtotal: Baseline 11</i>	- / -	- / 100.402	- / 105.423	- / 135.574	- / -	- / 135.574	- / 138.709	- / 121.734	- / 124.009	- / 126.321	- / -	- / 852.172
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 100.402	- / 105.423	- / 135.574	- / -	- / 135.574	- / 138.709	- / 121.734	- / 124.009	- / 126.321	- / -	- / 852.172
Support (All Modification Items)												
PMA - Other Gov't Costs	- / -	- / 1.313	- / 1.314	- / 1.315	- / -	- / 1.315	- / 1.316	- / 1.317	- / 1.341	- / 1.366	- / -	- / 9.282
<i>Subtotal: Support</i>	- / -	- / 1.313	- / 1.314	- / 1.315	- / -	- / 1.315	- / 1.316	- / 1.317	- / 1.341	- / 1.366	- / -	- / 9.282
Installation												
<i>Modification Item 1 of 1: Baseline 11</i>												
	- / -	4 / 45.030	4 / 46.201	4 / 47.496	- / -	4 / 47.496	4 / 47.782	4 / 48.118	4 / 48.984	4 / 49.867	- / -	28 / 333.478
<i>Subtotal: Installation</i>	- / -	4 / 45.030	4 / 46.201	4 / 47.496	- / -	4 / 47.496	4 / 47.782	4 / 48.118	4 / 48.984	4 / 49.867	- / -	28 / 333.478
Total												
Total Cost (Procurement + Support + Installation)	-	146.745	152.938	184.385	-	184.385	187.807	171.169	174.334	177.554	-	1,194.932

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 4263 / RIVET JOINT

Modification Item 1 of 1: Baseline 11

Manufacturer Information

Manufacturer Name: L-3Communications	Manufacturer Location: Greenville, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 9

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates	Sep 2015	Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	4 / 45.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 45.030
FY 2016	- / -	- / -	4 / 46.201	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 46.201
FY 2017	- / -	- / -	- / -	4 / 47.496	- / -	4 / 47.496	- / -	- / -	- / -	- / -	- / -	4 / 47.496
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	4 / 47.782	- / -	- / -	- / -	- / -	4 / 47.782
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 48.118	- / -	- / -	- / -	4 / 48.118
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 48.984	- / -	- / -	4 / 48.984
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 49.867	- / -	4 / 49.867
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	4 / 45.030	4 / 46.201	4 / 47.496	- / -	4 / 47.496	4 / 47.782	4 / 48.118	4 / 48.984	4 / 49.867	- / -	28 / 333.478

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	28
Out	0	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	28

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: DARP01 / RC-135				Modification Number / Title: 4265 / COMBAT SENT				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	10.539	6.633	20.728	-	20.728	6.793	6.834	6.957	7.082	-	65.566
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	10.539	6.633	20.728	-	20.728	6.793	6.834	6.957	7.082	-	65.566
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	10.539	6.633	20.728	-	20.728	6.793	6.834	6.957	7.082	-	65.566

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

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

Description:

FY 2017 funding totals includes a \$14.0M USD/I Add for COMBAT SENT Baseline 5 modernization shortfalls.

FY 2017 procurement funding acquires and installs various upgrade and enhancement modifications for the two RC-135U COMBAT SENT aircraft performing Air Combat Command (ACC) directed operational missions.

The RC-135U COMBAT SENT program (DARP/Manned Reconnaissance Systems) is managed as an incremental baseline upgrade acquisition strategy in order to maintain collection parity with evolving threat environment. The BIG SAFARI Baseline upgrade strategy requires purchase agreements for long lead items that take approximately 12 months from contract award to delivery. Items required for integration in a given Baseline upgrade are contracted for purchase in the first year of the procurement funding cycle and are acquired and installed in the next year. This acquisition strategy has been successful in maintaining critical combat capability in the ISR arena over the last 50 years.

FY 2017 procurement funding efforts will concentrate on efforts pertaining to sustainment and completion of the COMBAT SENT Baseline 5 enhancements. Baseline 5 subsystem upgrades consist of, but are not limited to, Wideband Global Satellite (WGS) reachback connectivity, precision ELINT systems (CORVUS & DSS) replacement, liquid cooling system, super wideband receiver, airborne tracking system, improved operator interface and reporting tools, integration of the RIVET JOINT Baseline 11 COMINT suite, and enhancing capabilities in dense signal environments.

Funding for this exhibit contained in PE 0305207F.

Milestone/Development Status

FY 2017 procurement funding associated with the acquisition, integration, fielding and logistical support efforts for the Baseline 5 configuration upgrades/enhancements of the two RC-135U COMBAT SENT aircraft, sensor systems, and associated ground support system are attributed to the development efforts initiated in FY 2015 and FY 2016 research & development funding initiatives. These initiatives formed the basis for the RC-135U COMBAT SENT fleet modification strategy.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: DARP01 / RC-135					Modification Number / Title: 4265 / COMBAT SENT			
Models of Systems Affected: RC-135U				Modification Type: Capability Improvement				Related RDT&E PEs: 0305207F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Baseline 5 (2)</i>													
A Kits													
Recurring													
Baseline 5:INSTALL KITS Group A (Active)													
	- / -	1 / 2.296	1 / 1.062	1 / 1.058	- / -	1 / 1.058	1 / 1.027	1 / 1.103	1 / 1.121	1 / 1.141	- / -	7 / 8.808	
<i>Subtotal: Recurring</i>													
	- / -	- / 2.296	- / 1.062	- / 1.058	- / -	- / 1.058	- / 1.027	- / 1.103	- / 1.121	- / 1.141	- / -	- / 8.808	
B Kits													
Recurring													
Baseline 5:EQUIPMENT Group B (Active)													
	- / -	1 / 4.040	1 / 1.690	1 / 15.818	- / -	1 / 15.818	1 / 2.081	1 / 2.042	1 / 2.081	1 / 2.118	- / -	7 / 29.870	
<i>Subtotal: Recurring</i>													
	- / -	- / 4.040	- / 1.690	- / 15.818	- / -	- / 15.818	- / 2.081	- / 2.042	- / 2.081	- / 2.118	- / -	- / 29.870	
<i>Subtotal: Baseline 5 (2)</i>													
	- / -	- / 6.336	- / 2.752	- / 16.876	- / -	- / 16.876	- / 3.108	- / 3.145	- / 3.202	- / 3.259	- / -	- / 38.678	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / -	- / 6.336	- / 2.752	- / 16.876	- / -	- / 16.876	- / 3.108	- / 3.145	- / 3.202	- / 3.259	- / -	- / 38.678	
Installation													
<i>Modification Item 1 of 1: Baseline 5 (2)</i>													
	- / -	1 / 4.203	1 / 3.881	1 / 3.852	- / -	1 / 3.852	1 / 3.685	1 / 3.689	1 / 3.755	1 / 3.823	- / -	7 / 26.888	
<i>Subtotal: Installation</i>													
	- / -	1 / 4.203	1 / 3.881	1 / 3.852	- / -	1 / 3.852	1 / 3.685	1 / 3.689	1 / 3.755	1 / 3.823	- / -	7 / 26.888	
Total													
Total Cost (Procurement + Support + Installation)	-	10.539	6.633	20.728	-	20.728	6.793	6.834	6.957	7.082	-	65.566	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 4265 / COMBAT SENT

Modification Item 1 of 1: Baseline 5 (2)

Manufacturer Information

Manufacturer Name: L-3Communications	Manufacturer Location: Greenville, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates	Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	1 / 4.203	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.203
FY 2016	- / -	- / -	1 / 3.881	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.881
FY 2017	- / -	- / -	- / -	1 / 3.852	- / -	1 / 3.852	- / -	- / -	- / -	- / -	- / -	1 / 3.852
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.685	- / -	- / -	- / -	- / -	1 / 3.685
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.689	- / -	- / -	- / -	1 / 3.689
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.755	- / -	- / -	1 / 3.755
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.823	- / -	1 / 3.823
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	1 / 4.203	1 / 3.881	1 / 3.852	- / -	1 / 3.852	1 / 3.685	1 / 3.689	1 / 3.755	1 / 3.823	- / -	7 / 26.888

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-
Out	0	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: E00300 / E-3
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207417F	Other Related Program Elements: 0207417F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	891.759	16.491	12.828	82.786	6.600	89.386	154.876	157.431	168.853	156.540	318.702	1,966.866
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	891.759	16.491	12.828	82.786	6.600	89.386	154.876	157.431	168.853	156.540	318.702	1,966.866
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	891.759	16.491	12.828	82.786	6.600	89.386	154.876	157.431	168.853	156.540	318.702	1,966.866

(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:

Totals include funding for Airborne Warning and Control System (AWACS) Upgrades. This line item funds modifications and may be used to address Diminishing Manufacturing Sources (DMS) issues for the overall E-3 weapon system to include aircraft, simulators, and training devices. The four-engine E-3 is a modified Boeing 707 airframe which carries airborne radar and provides all-altitude air surveillance, threat warning, and control of theater air forces. The modifications budgeted for and programmed within Weapon System Code (WSC) E00300 are listed below:

- DMS Replacement of the Avionics for Global Operation and Navigation (DRAGON)
- Next Generation Identify Friend or Foe (NGIFF)
- Reliability, Maintainability, and Availability (RM&A) Mods
- Low Cost Mods
- Vertical Stabilizer and Rudder Mods
- Training, Support, and Infrastructure (TSI)
- Electronic Protection (EP)
- Internet Protocol Enabled Communication (IPEC)
- CID (Combat Identification) Diminishing Manufacturing Sources (DMS)
- Communications Network Upgrade (CNU)

Prior to FY 2015, WSC E00300 included the funding for the AWACS Block 40/45 Upgrade, an MDAP program. Starting in FY15 and as directed by OSD's Major Programs Transparency Initiative, Block 40/45 Upgrade was moved to WSC E34045. If additional information on the Block 40/45 Upgrade is desired, please reference WSC E34045.

The FY 2015 President's Budget sought to divest seven (7) E-3 aircraft, which would have reduced the fleet size from thirty one (31) to twenty four (24) aircraft. Congress did not accept the proposed FY15 AWACS divestiture, and in response, the Air Force's FY 2016 President's Budget submission re-phased the E-3 force reduction of seven (7) aircraft to FY 2019. AWACS is postured in accordance with the FY 2019 force reduction, and as such will execute to a programmatic baseline of twenty four (24) aircraft. NGIFF is the one exception; given production concludes prior to the proposed FY 2019 divestiture, NGIFF will be executing to a programmatic baseline of 31 aircraft.

The FY 2017 funding request was reduced by \$2.63M to account for the availability of prior year execution balances.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
E00300 / E-3

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207417F **Other Related Program Elements:** 0207417F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	50001P / TSI (No text provided.)			- / 13.115	- / 3.335	- / 1.540	- / 3.902	- / -	- / 3.902
P-40a***	50001T / BLOCK 40/45 UPGRADE (Capability Improvement)			- / 658.246	- / -	- / -	- / -	- / -	- / -
P-40a***	50002 / Communications Networking Upgrade (CNU) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	7225 / NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF) (Capability Improvement)			- / 50.479	- / 9.899	- / 3.502	- / 1.680	- / -	- / 1.680
P-40a***	7267 / NAVWAR (Capability Improvement)			- / 13.972	- / -	- / -	- / -	- / -	- / -
P-40a***	7268 / INTEGRATED DAMA GATM (Capability Improvement)			- / 130.323	- / -	- / -	- / -	- / -	- / -
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)			- / 5.016	- / 0.608	- / 0.687	- / 0.687	- / -	- / 0.687
P-40a***	9707 / RM&A Mod (Reliability & Maintainability)			- / 18.806	- / 1.999	- / 0.825	- / 0.668	- / -	- / 0.668
P-40a***	9708 / Virtual Warfare Center (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9716 / VERTICAL STABILIZER AND RUDDER (Reliability & Maintainability)			- / 1.578	- / 0.374	- / 0.665	- / 0.287	- / -	- / 0.287
P-40a***	9717 / ELECTRONIC PROTECTION (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9719 / Combat ID Diminishing Manufacturing Sources (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999XA / LOW COST MOD - AIRFRAME (Reliability & Maintainability)			- / 0.112	- / 0.138	- / 0.100	- / 0.100	- / -	- / 0.100
P-40a***	99999XB / LOW COST MOD - AVIONICS & MISSION SYSTEMS (Reliability & Maintainability)			- / 0.112	- / 0.138	- / 0.100	- / 0.100	- / -	- / 0.100
P-3a	9709 / E-3 DRAGON (Capability Improvement)			- / 0.000	- / -	- / -	- / 56.188	- / -	- / 56.188
P-3a	9718 / IP-enabled Capability (IPEC) (Capability Improvement)			- / -	- / -	- / 5.409	- / 19.174	- / 6.600	- / 25.774
P-40	Total Gross/Weapon System Cost			- / 891.759	- / 16.491	- / 12.828	- / 82.786	- / 6.600	- / 89.386

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	50001P / TSI (No text provided.)			- / 3.716	- / 4.045	- / 1.680	- / 4.290	- / -	- / 35.623
P-40a***	50001T / BLOCK 40/45 UPGRADE (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 658.246
P-40a***	50002 / Communications Networking Upgrade (CNU) (Capability Improvement)			- / 10.016	- / 14.044	- / 17.724	- / 6.129	- / -	- / 47.913
P-40a***	7225 / NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 65.560
P-40a***	7267 / NAVWAR (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 13.972
P-40a***	7268 / INTEGRATED DAMA GATM (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 130.323
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)			- / 0.700	- / 0.713	- / 0.725	- / 0.739	- / -	- / 9.875
P-40a***	9707 / RM&A Mod (Reliability & Maintainability)			- / 0.620	- / 0.075	- / 0.310	- / 0.320	- / -	- / 23.623

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft **P-1 Line Item Number / Title:**
E00300 / E-3

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207417F **Other Related Program Elements:** 0207417F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	9708 / Virtual Warfare Center (Capability Improvement)			- / 9.424	- / -	- / -	- / -	- / -	- / 9.424
P-40a***	9716 / VERTICAL STABILIZER AND RUDDER (Reliability & Maintainability)			- / 0.135	- / 0.018	- / -	- / -	- / -	- / 3.057
P-40a***	9717 / ELECTRONIC PROTECTION (Capability Improvement)			- / 13.969	- / 17.408	- / 12.009	- / 3.339	- / -	- / 46.725
P-40a***	9719 / Combat ID Diminishing Manufacturing Sources (Capability Improvement)			- / 5.431	- / 7.344	- / 8.037	- / 22.906	- / -	- / 43.718
P-40a***	99999XA / LOW COST MOD - AIRFRAME (Reliability & Maintainability)			- / 0.131	- / 0.010	- / 0.100	- / 0.100	- / -	- / 0.791
P-40a***	99999XB / LOW COST MOD - AVIONICS & MISSION SYSTEMS (Reliability & Maintainability)			- / 0.131	- / 0.010	- / 0.100	- / 0.100	- / -	- / 0.791
P-3a	9709 / E-3 DRAGON (Capability Improvement)			- / 96.891	- / 99.515	- / 124.410	- / 118.617	- / 318.702	- / 814.323
P-3a	9718 / IP-enabled Capability (IPEC) (Capability Improvement)			- / 13.712	- / 14.249	- / 3.758	- / -	- / -	- / 62.902
P-40	Total Gross/Weapon System Cost			- / 154.876	- / 157.431	- / 168.853	- / 156.540	- / 318.702	- / 1,966.866

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: E00300 / E-3			Modification Number / Title: 9709 / E-3 DRAGON				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	56.188	-	56.188	96.891	99.515	124.410	118.617	318.702	814.323
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	56.188	-	56.188	96.891	99.515	124.410	118.617	318.702	814.323
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	56.188	-	56.188	96.891	99.515	124.410	118.617	318.702	814.323

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	12.060	-	12.060	11.651	10.641	10.833	-	-	45.185
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DMS Replacement of Avionics for Global Operations and Navigation (DRAGON) completes the Federal Aviation Administration (FAA), International Civil Aviation Organization (ICAO) and European Organization for the Safety of Air Navigation (EUROCONTROL) air traffic control mandated safety of flight capabilities. This program will provide the E-3 fleet with the flight instruments and other avionics for the Required Navigation Performance (RNP), and the surveillance and communication capabilities necessary to maintain continued critical unrestricted access to global airspace. Non-compliance will result in airspace restrictions and denials that will impact AWACS ability to support worldwide responses to situations requiring immediate on-scene Battle Management (BM)/Command and Control (C2). DRAGON replaces the existing Diminishing Manufacturing Sources (DMS) Global Positioning System (GPS) Integrated Navigation System (GINS) with a modern Flight Management System (FMS) that will accommodate new capabilities including Mode 5 IFF and Joint Mission Planning System (JMPS). This modification incorporates the addition of data link communications, voice and data link digital radios, improved visual displays, and competitive acquisition of DRAGON flight simulators, crew and maintenance training, initial spares, warehousing and kit construction for Group A and Group B components, Drive In Theater Maintenance Company (DITMCO) wiring testing devices, interim contractor support and software maintenance. Also included is the establishment of laboratories needed to support DRAGON systems. These improvements, along with emphasis on employment of Commercial-Off-The-Shelf (COTS) avionics is expected to lower cost, reduce the capital equipment refresh cycle, and enhance life cycle management. While the Engineering and Manufacturing Development (EMD) phase of DRAGON is being executed as a Cooperative Program between the US and NATO, but the production effort will be a US only effort consisting of a Low Rate Initial Production (LRIP) followed by a Full Rate Production (FRP).

Milestone/Development Status

FY11-FY16 RDT&E funds support integration of the DRAGON requirements. EMD Contract Award date: November 2011. Milestone B Approval date: November 2011

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: E00300 / E-3					Modification Number / Title: 9709 / E-3 DRAGON			
Models of Systems Affected: E-3B, E-3C				Modification Type: Capability Improvement				Related RDT&E PEs: 0207417F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0207417F	- / 197.813	- / 122.931	- / 73.277	- / 40.123	- / -	- / 40.123	- / 7.382	- / 1.981	- / -	- / -	- / -	- / 144.507	
Procurement													
Modification Item 1 of 1: DRAGON													
A Kits													
Recurring													
DRAGON:INSTALL KITS Group A (Active)	- / -	- / -	- / -	1 / 3.167	- / -	1 / 3.167	4 / 12.331	4 / 13.106	4 / 11.986	4 / 13.426	6 / 19.354	23 / 73.370	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 3.167	- / -	- / 3.167	- / 12.331	- / 13.106	- / 11.986	- / 13.426	- / 19.354	- / 73.370	
B Kits													
Recurring													
DRAGON:EQUIPMENT Group B (Active)	- / -	- / -	- / -	1 / 6.376	- / -	1 / 6.376	4 / 24.824	4 / 25.953	4 / 24.129	4 / 24.129	6 / 34.733	23 / 140.144	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 6.376	- / -	- / 6.376	- / 24.824	- / 25.953	- / 24.129	- / 24.129	- / 34.733	- / 140.144	
<i>Subtotal: DRAGON</i>	- / -	- / -	- / -	- / 9.543	- / -	- / 9.543	- / 37.155	- / 39.059	- / 36.115	- / 37.555	- / 54.087	- / 213.514	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 9.543	- / -	- / 9.543	- / 37.155	- / 39.059	- / 36.115	- / 37.555	- / 54.087	- / 213.514	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 12.397	- / -	- / 12.397	- / 9.232	- / 10.526	- / 3.303	- / 6.606	- / 5.431	- / 47.495	
Change Orders	- / -	- / -	- / -	- / 1.849	- / -	- / 1.849	- / 4.718	- / 7.595	- / 0.120	- / 7.371	- / 15.416	- / 37.069	
Data	- / -	- / -	- / -	- / 0.480	- / -	- / 0.480	- / 1.047	- / 4.769	- / 0.062	- / 3.265	- / 3.502	- / 13.125	
SIM/TRAINER	- / -	- / -	- / -	1 / 20.510	- / -	1 / 20.510	- / 12.554	- / 22.580	- / 0.032	- / 2.138	- / -	1 / 57.814	
SUPPORT-EQUIP	- / -	- / -	- / -	- / 2.058	- / -	- / 2.058	- / 2.501	- / -	- / -	- / -	- / -	- / 4.559	
ICS-Labor	- / -	- / -	- / -	- / 5.476	- / -	- / 5.476	- / 5.443	- / 7.101	- / 2.414	- / 5.434	- / 17.389	- / 43.257	
PMA - Contractor Services	- / -	- / -	- / -	- / 3.631	- / -	- / 3.631	- / 3.612	- / 5.466	- / 2.755	- / 3.755	- / 11.020	- / 30.239	
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.078	- / 2.101	- / 0.319	- / 0.319	- / 0.997	- / 3.814	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.244	- / -	- / 0.244	- / 0.243	- / 0.318	- / 0.250	- / 0.250	- / 0.860	- / 2.165	
<i>Subtotal: Support</i>	- / -	- / -	- / -	1 / 46.645	- / -	1 / 46.645	- / 39.428	- / 60.456	- / 9.255	- / 29.138	- / 54.615	1 / 239.537	
Installation													
Modification Item 1 of 1: DRAGON													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 20.308	- / -	5 / 79.040	3 / 51.924	14 / 210.000	23 / 361.272	
<i>Total</i>							1 / 20.308	- / -	5 / 79.040	3 / 51.924	14 / 210.000	23 / 361.272	
Total Cost (Procurement + Support + Installation)	0.000	-	-	56.188	-	56.188	96.891	99.515	124.410	118.617	318.702	814.323	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00300 / E-3	Modification Number / Title: 9709 / E-3 DRAGON

Modification Item 1 of 1: DRAGON

Manufacturer Information

Manufacturer Name: Unknown	Manufacturer Location: TBD
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 18

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021
Delivery Dates			Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	1 / 20.308	- / -	- / -	- / -	- / -	1 / 20.308
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 79.040	- / -	- / -	5 / 79.040
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 51.924	- / -	3 / 51.924
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 210.000	14 / 210.000
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 20.308	- / -	5 / 79.040	3 / 51.924	14 / 210.000	23 / 361.272

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	1	2	1	1	1	-	14	23
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	4	17	23

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Exhibit P-3a, Individual Modification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00300 / E-3	Modification Number / Title: 9718 / IP-enabled Capability (IPEC)
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	5.409	19.174	6.600	25.774	13.712	14.249	3.758	-	-	62.902
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	5.409	19.174	6.600	25.774	13.712	14.249	3.758	-	-	62.902
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	5.409	19.174	6.600	25.774	13.712	14.249	3.758	-	-	62.902
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	3.204	-	-	-	3.204
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Internet Protocol Enabled Communication (IPEC): IPEC will provide the Block 40/45 E-3 with a medium-bandwidth IP communications capability to connect to the Global Information Grid and will support net-centric operations/warfare. IPEC will provide a reliable IP-enabled communication capability to support a shortened digitized kill-chain of time-sensitive targets. The modification will provide a permanent INMARSAT-based IP-enabled communications package supporting warfighter identified requirements for increased bandwidth SIPRNET and multi-domain networks. This modification has related RDT&E funding in PE 0207417F.

Milestone/Development Status

EMD contract awarded 3Q FY15. EMD risk reduction activities funded by C2ISR began 1Q FY15.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: E00300 / E-3					Modification Number / Title: 9718 / IP-enabled Capability (IPEC)			
Models of Systems Affected: E-3				Modification Type: Capability Improvement				Related RDT&E PEs: 0207417F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0207417F	- / -	- / 15.626	- / 13.742	- / 19.280	- / -	- / 19.280	- / -	- / -	- / -	- / -	- / -	- / 48.648	
Procurement													
<i>Modification Item 1 of 1: IP Enabled Communication</i>													
A Kits													
Recurring													
IP Enabled Communication:INSTALL KITS Group A (Active)	- / -	- / -	2 / 0.905	10 / 4.480	3 / 1.500	13 / 5.980	4 / 2.425	5 / 2.390	- / 0.322	- / -	- / -	24 / 12.022	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.905	- / 4.480	- / 1.500	- / 5.980	- / 2.425	- / 2.390	- / 0.322	- / -	- / -	- / 12.022	
B Kits													
Recurring													
IP Enabled Communication:EQUIPMENT Group B (Active)	- / -	- / -	2 / 3.941	10 / 10.190	3 / 4.357	13 / 14.547	4 / 8.733	5 / 9.162	- / 1.878	- / -	- / -	24 / 38.261	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 3.941	- / 10.190	- / 4.357	- / 14.547	- / 8.733	- / 9.162	- / 1.878	- / -	- / -	- / 38.261	
<i>Subtotal: IP Enabled Communication</i>	- / -	- / -	- / 4.846	- / 14.670	- / 5.857	- / 20.527	- / 11.158	- / 11.552	- / 2.200	- / -	- / -	- / 50.283	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 4.846	- / 14.670	- / 5.857	- / 20.527	- / 11.158	- / 11.552	- / 2.200	- / -	- / -	- / 50.283	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / -	- / -	- / 1.028	- / 0.306	- / 1.334	- / 0.495	- / 0.409	- / 0.001	- / -	- / -	- / 2.239	
SIM/TRAINER	- / -	- / -	- / -	1 / 0.433	- / -	1 / 0.433	- / -	- / -	1 / 0.460	- / -	- / -	2 / 0.893	
ICS-Labor	- / -	- / -	- / 0.231	- / 2.293	- / -	- / 2.293	- / 1.015	- / 1.222	- / 0.011	- / -	- / -	- / 4.772	
SUPPORT-EQUIP	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / -	- / -	- / 0.332	- / 0.402	- / 0.311	- / 0.713	- / 1.044	- / 1.066	- / 1.086	- / -	- / -	- / 4.241	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.348	- / 0.126	- / 0.474	- / -	- / -	- / -	- / -	- / -	- / 0.474	
<i>Subtotal: Support</i>	- / -	- / -	- / 0.563	1 / 4.504	- / 0.743	1 / 5.247	- / 2.554	- / 2.697	1 / 1.558	- / -	- / -	2 / 12.619	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	-	5.409	19.174	6.600	25.774	13.712	14.249	3.758	-	-	62.902	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00300 / E-3	Modification Number / Title: 9718 / IP-enabled Capability (IPEC)
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Modification Item 1 of 1: IP Enabled Communication

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Seattle
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	
Delivery Dates		Nov 2016	Nov 2017	Nov 2018	Jan 2020	Jan 2021	

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 21
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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: E00400 / E-4
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0302015F	Other Related Program Elements: 0101316F, 0302015F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	127.624	17.091	19.937	53.348	-	53.348	32.810	40.266	41.086	41.844	-	374.006
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	127.624	17.091	19.937	53.348	-	53.348	32.810	40.266	41.086	41.844	-	374.006
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	127.624	17.091	19.937	53.348	-	53.348	32.810	40.266	41.086	41.844	-	374.006

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

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

Description:

Program P-3A Mod 4409, Low Frequency Transmit System (LFTS), is a new start. This line item funds modifications to the four aircraft E-4B fleet. The four engine E-4B is a highly modified Boeing 747 Model 200 (747-200) airframe which supports the National Airborne Operations Center (NAOC) mission. NAOC provides national civilian and military leadership with a worldwide, survivable, and enduring communications node of the National Military Command System (NMCS). The modifications listed within this document provide updates to maintain Federal Aviation Agency (FAA) airframe flight worthiness certification and provide additional capabilities to the aircraft flight control, navigation and communication systems, as well as the primary mission equipment to ensure the E-4B is able to execute its various missions. These modifications also enhance operational capability while improving flight safety, reliability, and maintainability.

The current Boeing estimated design service life of the Boeing 747-200 E-4B airframe is 115K hours and 30K cycles. It is estimated this limit will be reached during 2039. However, as the aircraft age, depot periods will need to be extended due to maintenance issues associated with an aging fleet, thus limiting the E-4B ability to support the NAOC mission due to aircraft non-availability. The maintenance limiting point is expected to occur during the decade beginning 2020. The age of the four E-4B aircraft fleet presents Diminishing Manufacturing Sources (DMS) issues involving primary mission equipment, and to a lesser extent the airframe. Airframe DMS and issues associated with the non-availability of FAA certified parts are expected to increase due to the dwindling world-wide number of Boeing 747-200 aircraft because of the the international commercial airline industry removing aging aircraft from their inventories.

The FY2017 funding request was reduced by \$2.3 million to account for the availability of prior year execution balances.

The Nuclear Planning and Execution System (NPES) is an active Nuclear Command and Control Communications (NC3) asset required to perform the NAOC's mission. Funding for this exhibit is contained in PE 0101316F.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
E00400 / E-4

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0302015F **Other Related Program Elements:** 0101316F, 0302015F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	3410 / NPES (NC2AIS) E-4B (Reliability & Maintainability)			- / 2.010	- / 0.020	- / 0.700	- / -	- / -	- / -
P-40a***	4406A / SHF Modernization (Capability Improvement)			- / 55.644	- / 10.747	- / 8.000	- / -	- / -	- / -
P-40a***	4406B / AEHF Compatible Terminal/PNVC (Capability Improvement)			- / -	- / -	- / -	- / 0.017	- / -	- / 0.017
P-40a***	4407 / AIU Modernization (Capability Improvement)			- / 47.137	- / 0.833	- / -	- / -	- / -	- / -
P-40a***	9709D / E-4B COMMUNICATION NAVIGATION SURVEILLANCE/AIR TRAFFIC MANAGEMENT I (Capability Improvement)			- / 3.705	- / 0.732	- / -	- / -	- / -	- / -
P-40a***	9709F / CNS/ATM(ADS-B OUT) (Capability Improvement)			- / -	- / 1.200	- / 4.562	- / 4.720	- / -	- / 4.720
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)			- / 4.985	- / 0.450	- / 1.990	- / 1.990	- / -	- / 1.990
P-3a	4409 / Low Frequency Transmit System (LFTS) (Capability Improvement)			- / 0.000	- / -	- / -	- / 41.205	- / -	- / 41.205
P-3a	1 / SERVICE BULLETINS (Reliability & Maintainability)			- / 14.143	- / 3.109	- / 4.685	- / 5.416	- / -	- / 5.416
P-40	Total Gross/Weapon System Cost			- / 127.624	- / 17.091	- / 19.937	- / 53.348	- / -	- / 53.348

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	3410 / NPES (NC2AIS) E-4B (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 2.730
P-40a***	4406A / SHF Modernization (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 74.391
P-40a***	4406B / AEHF Compatible Terminal/PNVC (Capability Improvement)			- / 2.540	- / 1.290	- / -	- / -	- / -	- / 3.847
P-40a***	4407 / AIU Modernization (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 47.970
P-40a***	9709D / E-4B COMMUNICATION NAVIGATION SURVEILLANCE/AIR TRAFFIC MANAGEMENT I (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 4.437
P-40a***	9709F / CNS/ATM(ADS-B OUT) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 10.482
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)			- / 1.990	- / 1.990	- / 1.990	- / 1.990	- / -	- / 17.375
P-3a	4409 / Low Frequency Transmit System (LFTS) (Capability Improvement)			- / 22.766	- / 31.445	- / 33.424	- / 34.040	- / -	- / 162.880
P-3a	1 / SERVICE BULLETINS (Reliability & Maintainability)			- / 5.514	- / 5.541	- / 5.672	- / 5.814	- / -	- / 49.894
P-40	Total Gross/Weapon System Cost			- / 32.810	- / 40.266	- / 41.086	- / 41.844	- / -	- / 374.006

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

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

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

Justification:

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: E00400 / E-4				Modification Number / Title: 4409 / Low Frequency Transmit System (LFTS)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	41.205	-	41.205	22.766	31.445	33.424	34.040	-	162.880
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	41.205	-	41.205	22.766	31.445	33.424	34.040	-	162.880
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	41.205	-	41.205	22.766	31.445	33.424	34.040	-	162.880
<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>)	-	-	-	13.702	-	13.702	3.251	4.000	-	-	-	20.953
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 4409, Low Frequency Transmit System (LFTS), is a new start. The Low Frequency Transmit System (LFTS) program will replace the current Very Low Frequency/Low Frequency (VLF/LF) Transmit system on the 4 aircraft E-4B fleet. The current system has been on the E-4B for over 35 years and is unsustainable. This system must be replaced in order to meet existing Presidential Policy Directive (PPD)-35 requirements and ensure there is constant and consistent connectivity between National Leadership and Military Forces in all phases on conflict. The E-4B National Airborne Operations Center (NAOC) Capability Development Document (CDD) is the relevant requirement document and the LF requirement was revalidated in Oct 2013 for LFTS. The AFROC approved AF1067 is ACC 13-059. LFTS will consist of three primary equipment groups: a Power Amplifier/Coupler (PA/C) group, a Trailing Wire Antenna (TWA) group, and a Control group.

Milestone/Development Status

Milestone B and the Systems Requirements Review (SRR) occurred in February 2015. The Preliminary Design Review (PDR) was completed in October 2015 and the Critical Design Review (CDR) is currently scheduled for April 2016. The prototype kit and installation is funded with FY16 RDT&E. The first production kit and installation will be purchased with FY17 procurement funding. Other efforts will include integration and support activities and logistics planning.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: E00400 / E-4					Modification Number / Title: 4409 / Low Frequency Transmit System (LFTS)			
Models of Systems Affected: E-4B				Modification Type: Capability Improvement				Related RDT&E PEs: 0302015F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0302015F	- / -	1 / 24.173	- / 55.400	- / 17.794	- / -	- / 17.794	- / 8.640	- / -	- / -	- / -	- / -	1 / 106.007	
Procurement													
Modification Item 1 of 1: LFTS Baseline Kit													
A Kits													
Recurring													
LFTS Baseline Kit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	1 / 12.302	- / -	1 / 12.302	1 / 4.339	1 / 6.079	- / -	- / -	- / -	3 / 22.720	
Subtotal: Recurring	- / -	- / -	- / -	- / 12.302	- / -	- / 12.302	- / 4.339	- / 6.079	- / -	- / -	- / -	- / 22.720	
B Kits													
Recurring													
LFTS Baseline Kit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / 10.000	- / -	- / 10.000	- / 5.256	- / 7.248	- / -	- / -	- / -	- / 22.504	
Subtotal: Recurring	- / -	- / -	- / -	- / 10.000	- / -	- / 10.000	- / 5.256	- / 7.248	- / -	- / -	- / -	- / 22.504	
Subtotal: LFTS Baseline Kit	- / -	- / -	- / -	- / 22.302	- / -	- / 22.302	- / 9.595	- / 13.327	- / -	- / -	- / -	- / 45.224	
Subtotal: Procurement, All Modification Items	- / -	- / -	- / -	- / 22.302	- / -	- / 22.302	- / 9.595	- / 13.327	- / -	- / -	- / -	- / 45.224	
Support (All Modification Items)													
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 33.024	1 / 33.640	- / -	2 / 66.664	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.400	- / 0.400	- / 0.400	- / 0.400	- / -	- / 2.000	
Subtotal: Support	- / -	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.400	- / 0.400	1 / 33.424	1 / 34.040	- / -	2 / 68.664	
Installation													
Modification Item 1 of 1: LFTS Baseline Kit													
LFTS Baseline Kit	- / -	- / -	- / -	1 / 18.503	- / -	1 / 18.503	1 / 12.771	1 / 17.718	- / -	- / -	- / -	3 / 48.992	
Subtotal: Installation	- / -	- / -	- / -	1 / 18.503	- / -	1 / 18.503	1 / 12.771	1 / 17.718	- / -	- / -	- / -	3 / 48.992	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	41.205	-	41.205	22.766	31.445	33.424	34.040	-	162.880	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00400 / E-4	Modification Number / Title: 4409 / Low Frequency Transmit System (LFTS)

Modification Item 1 of 1: LFTS Baseline Kit

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Oklahoma City
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 11

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Nov 2016	Oct 2017	Oct 2018		
Delivery Dates			Oct 2017	Sep 2018	Sep 2019		

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	1 / 18.503	- / -	1 / 18.503	- / -	- / -	- / -	- / -	- / -	1 / 18.503
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	1 / 12.771	- / -	- / -	- / -	- / -	1 / 12.771
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 17.718	- / -	- / -	- / -	1 / 17.718
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 18.503	- / -	1 / 18.503	1 / 12.771	1 / 17.718	- / -	- / -	- / -	3 / 48.992

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00400 / E-4	Modification Number / Title: 1 / SERVICE BULLETINS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	14.143	3.109	4.685	5.416	-	5.416	5.514	5.541	5.672	5.814	-	49.894
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	14.143	3.109	4.685	5.416	-	5.416	5.514	5.541	5.672	5.814	-	49.894
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	14.143	3.109	4.685	5.416	-	5.416	5.514	5.541	5.672	5.814	-	49.894
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	0.341	0.337	0.320	-	0.320	0.327	0.333	0.338	0.344	-	2.340
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Funds are required to complete Service Bulletins in order to maintain compliance with FAA standards and certification. Service Bulletins affect the safety, maintenance, and reliability for the aircraft, engines, and associated mission equipment. The funding profile is driven by Service Bulletin due date and aircraft availability.

Milestone/Development Status

None

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: E00400 / E-4					Modification Number / Title: 1 / SERVICE BULLETINS			
Models of Systems Affected: E-4B				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0302015F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Service Support Deliverables</i>													
A Kits													
Recurring													
Service Support Deliverables:INSTALL KITS Group A (Active)	5 / 11.059	2 / 1.439	3 / 0.797	3 / 3.315	- / -	3 / 3.315	2 / 2.853	2 / 2.701	2 / 2.757	2 / 2.819	- / -	21 / 27.740	
<i>Subtotal: Recurring</i>	- / 11.059	- / 1.439	- / 0.797	- / 3.315	- / -	- / 3.315	- / 2.853	- / 2.701	- / 2.757	- / 2.819	- / -	- / 27.740	
<i>Subtotal: Service Support Deliverables</i>	- / 11.059	- / 1.439	- / 0.797	- / 3.315	- / -	- / 3.315	- / 2.853	- / 2.701	- / 2.757	- / 2.819	- / -	- / 27.740	
<i>Subtotal: Procurement, All Modification Items</i>	- / 11.059	- / 1.439	- / 0.797	- / 3.315	- / -	- / 3.315	- / 2.853	- / 2.701	- / 2.757	- / 2.819	- / -	- / 27.740	
Support (All Modification Items)													
SUPPORT-EQUIP	- / -	- / 1.100	- / 0.550	- / 0.480	- / -	- / 0.480	- / 0.620	- / -	- / 0.020	- / 0.052	- / -	- / 12.822	
A&AS	- / 0.083	- / 0.270	- / 0.052	- / 0.061	- / -	- / 0.061	- / 0.021	- / -	- / -	- / -	- / -	- / 0.487	
<i>Subtotal: Support</i>	- / 0.083	- / 1.370	- / 0.602	- / 0.541	- / -	- / 0.541	- / 0.641	- / -	- / 0.020	- / 0.052	- / -	- / 13.309	
Installation													
<i>Modification Item 1 of 1: Service Support Deliverables</i>	5 / 3.001	2 / 0.300	3 / 3.286	3 / 1.560	- / -	3 / 1.560	2 / 2.020	2 / 2.840	2 / 2.895	2 / 2.943	- / -	21 / 18.845	
<i>Subtotal: Installation</i>	5 / 3.001	2 / 0.300	3 / 3.286	3 / 1.560	- / -	3 / 1.560	2 / 2.020	2 / 2.840	2 / 2.895	2 / 2.943	- / -	21 / 18.845	
Total													
Total Cost (Procurement + Support + Installation)	14.143	3.109	4.685	5.416	-	5.416	5.514	5.541	5.672	5.814	-	49.894	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00400 / E-4	Modification Number / Title: 1 / SERVICE BULLETINS

Modification Item 1 of 1: Service Support Deliverables

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: San Antonio, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Feb 2016	Jan 2017	Feb 2018	Jan 2019	Jan 2020	
Delivery Dates	May 2015	Jun 2016	May 2017	Jun 2018	May 2019	May 2020	

Installation Information

Method of Implementation: Depot Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 3.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 3.001
FY 2015	- / -	2 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.300
FY 2016	- / -	- / -	3 / 3.286	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.286
FY 2017	- / -	- / -	- / -	3 / 1.560	- / -	3 / 1.560	- / -	- / -	- / -	- / -	- / -	3 / 1.560
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.020	- / -	- / -	- / -	- / -	2 / 2.020
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.840	- / -	- / -	- / -	2 / 2.840
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.895	- / -	- / -	2 / 2.895
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.943	- / -	2 / 2.943
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 3.001	2 / 0.300	3 / 3.286	3 / 1.560	- / -	3 / 1.560	2 / 2.020	2 / 2.840	2 / 2.895	2 / 2.943	- / -	21 / 18.845

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	5	2	-	-	-	3	-	-	-	3	-	-	-	-	2	-	-	2	-	-	-	2	-	-	-	2	-	-	-	-	-
Out	5	-	-	2	-	-	-	3	-	-	-	3	-	-	-	-	2	-	-	2	-	-	-	2	-	-	-	2	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: E00800 / E-8
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207581F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	105.683	-	18.001	6.244	-	6.244	10.714	-	-	-	-	140.642
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	105.683	-	18.001	6.244	-	6.244	10.714	-	-	-	-	140.642
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	105.683	-	18.001	6.244	-	6.244	10.714	-	-	-	-	140.642

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

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

Description:

This line item funds modifications to the E-8C Joint Surveillance Target Attack Radar System (JSTARS) aircraft through FY 2018. JSTARS was developed for ground surveillance, targeting, and battle management. The E-8C is a modified Boeing 707-300 airframe that provides a unique blend of Battle Management Command and Control (BMC2) and Intelligence, Surveillance, and Reconnaissance (ISR). Air Battle Managers onboard the JSTARS use its wide area ground surveillance radar to build situational awareness and identify targets which are passed to strike assets or crossed cued with ISR platforms. The capability to perform this dual mission at the tactical edge both reduces the time to execute the kill chain and improves ISR collections across the range of military options.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for the use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.200	4.244	-	4.244	6.714	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	16.801	2.000	-	2.000	4.000	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	18.001	6.244	-	6.244	10.714	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: E00800 / E-8
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ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207581F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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	38198 / Prime Mission Equipment - Diminishing Manufacturing Sources (Capability Improvement)			- / 105.683	- / -	- / 18.001	- / 6.244	- / -	- / 6.244
P-40	Total Gross/Weapon System Cost			- / 105.683	- / -	- / 18.001	- / 6.244	- / -	- / 6.244

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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	38198 / Prime Mission Equipment - Diminishing Manufacturing Sources (Capability Improvement)			- / 10.714	- / -	- / -	- / -	- / -	- / 140.642
P-40	Total Gross/Weapon System Cost			- / 10.714	- / -	- / -	- / -	- / -	- / 140.642

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: E00800 / E-8			Modification Number / Title: 38198 / Prime Mission Equipment - Diminishing Manufacturing Sources				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	105.683	-	18.001	6.244	-	6.244	10.714	-	-	-	-	140.642
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	105.683	-	18.001	6.244	-	6.244	10.714	-	-	-	-	140.642
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	105.683	-	18.001	6.244	-	6.244	10.714	-	-	-	-	140.642
<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>)	5.520	-	-	-	-	-	-	-	-	-	-	5.520
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Prime Mission Equipment (PME) Diminishing Manufacturing Sources (DMS) is a top issue for fleet viability. PME is required for Joint STARS to maintain net-centric war fighter capabilities - Ground Moving Target Indicator (GMTI) and Battle Management Command and Control (BMC2) as specified in the Operational Requirements Document (ORD). The last major modification to the mission computing hardware took place during the Computer Replacement Program (CRP) from 1997-2005. The program has maximized 3rd party vendors and after market suppliers for the last eight years without any additional funded capital equipment replacements. Parts obsolescence stemming from an overdue capital equipment replacement (20+ year old Commercial Off the Shelf (COTS) equipment) requires a major modification to maintain the existing processing capabilities and specification compliance. Modification will address hardware and software DMS issues and COTS life cycle replacement for Operator Work Station (OWS), the Central Computing subsystem, and the Radar Airborne Signal Processor (RASP) subsystem. Modifications will also include but are not limited to mission and maintenance crew trainers, software maintenance, and support systems at Robins AFB GA. Installations will occur at Lake Charles, LA and the schedule is based on the Program Depot Maintenance (PDM) program. The PDM schedule is on fixed periodic time frames, however, the duration of the PDMs and platform availability are impacted by real world events therefore, the install schedule may vary. In October 2013, a contract was awarded for seven Group A Kits and seven Group B Kits. Two of the seven Group A Kits and two of the seven Group B Kits were procured with \$5.85M of National Guard and Reserve Equipping Appropriation (NGREA) funding. The remaining five of the seven Group A Kits and five of the seven Group B Kits were procured with Joint STARS funding. This skews the FY13 average unit kit costs. In Sep 2014, the contract was amended to add an additional four Group A kits and four additional Group B kits for a total of eleven overall. In FY16 we awarded the contract to procure and install three additional modification kits, modifying fourteen of the sixteen Joint STARS aircraft within the fleet. Funding for this exhibit contained in PE 0207581F is for a total of 12 operational aircraft to be modified with procurement funds. Funding lapsed in FY15 as the future of the platform was uncertain. Funding is restored again for FY16 through FY18 to retrofit the additional three aircraft. The pilot trainer aircraft does not carry the standard mission equipment, so it does not require this modification. FY14 and FY15 Program Management Activities (PMA) was funded with FY14 funds.

Milestone/Development Status

The System Design and Development (SDD) program was completed in the FY09-FY13 timeframe using Research, Development, Test and Evaluation (RDT&E) funds. The SDD program was initiated with FY08 Global War on Terror (GWOT) RDT&E funds. Delivery Orders were awarded on 31 July 2009 for the replacement portion of the RASP hardware and software subsystem along with Central Computer Subsystem upgrades and on 1 June 2010 for the replacement portion of the OWS computer. The contract was Sole Source to Northrop Grumman under the Joint STARS System Improvement Program II (JSSIP) contract. The DD250 for the SDD program was received in June 2013.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	1.200	4.244	-	4.244	6.714	-	-	-
AFNG	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force				Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: E00800 / E-8			Modification Number / Title: 38198 / Prime Mission Equipment - Diminishing Manufacturing Sources			

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
	Total Obligation Authority	-	16.801	2.000	-	2.000	4.000	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	18.001	6.244	-	6.244	10.714	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: E00800 / E-8					Modification Number / Title: 38198 / Prime Mission Equipment - Diminishing Manufacturing Sources			
Models of Systems Affected: E-8C				Modification Type: Capability Improvement				Related RDT&E PEs: 0207581F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: PME DMS Installation Kit</i>													
A Kits													
Recurring													
PME DMS Installation Kit:INSTALL KITS Group A (Guard)	11 / 15.103	- / -	3 / 12.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 27.703	
<i>Subtotal: Recurring</i>	- / 15.103	- / -	- / 12.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.703	
B Kits													
Recurring													
PME DMS Installation Kit:EQUIPMENT Group B (Guard)	11 / 20.232	- / -	3 / 4.201	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 24.433	
<i>Subtotal: Recurring</i>	- / 20.232	- / -	- / 4.201	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.433	
<i>Subtotal: PME DMS Installation Kit</i>	- / 35.335	- / -	- / 16.801	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 52.136	
<i>Subtotal: Procurement, All Modification Items</i>	- / 35.335	- / -	- / 16.801	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 52.136	
Support (All Modification Items)													
Change Orders	- / 13.561	- / -	- / 0.459	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.020	
SIM/TRAINER	1 / 13.318	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 13.318	
SUPPORT-EQUIP	- / 4.406	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.406	
OTHER GOVT	- / 0.952	- / -	- / -	- / 4.000	- / -	- / 4.000	- / 4.998	- / -	- / -	- / -	- / -	- / 9.950	
A&AS	- / 6.146	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.146	
PMA - Contractor Services	- / 12.007	- / -	- / 0.741	- / 0.244	- / -	- / 0.244	- / 1.716	- / -	- / -	- / -	- / -	- / 14.708	
ICS-Labor	- / 0.279	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.279	
OTHER GOVT (1)	- / 9.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.001	
<i>Subtotal: Support</i>	1 / 59.670	- / -	- / 1.200	- / 4.244	- / -	- / 4.244	- / 6.714	- / -	- / -	- / -	- / -	1 / 71.828	
Installation													
<i>Modification Item 1 of 1: PME DMS Installation Kit</i>	11 / 10.678	- / -	- / -	1 / 2.000	- / -	1 / 2.000	2 / 4.000	- / -	- / -	- / -	- / -	14 / 16.678	
<i>Subtotal: Installation</i>	11 / 10.678	- / -	- / -	1 / 2.000	- / -	1 / 2.000	2 / 4.000	- / -	- / -	- / -	- / -	14 / 16.678	
Total													
Total Cost (Procurement + Support + Installation)	105.683	-	18.001	6.244	-	6.244	10.714	-	-	-	-	140.642	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00800 / E-8	Modification Number / Title: 38198 / Prime Mission Equipment - Diminishing Manufacturing Sources

Modification Item 1 of 1: PME DMS Installation Kit

Manufacturer Information

Manufacturer Name: Northrop Gruman Corp	Manufacturer Location: Melbourne , Florida
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016					
Delivery Dates		Apr 2016					

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 10.678	- / -	- / -	- / -	- / -	- / -	2 / 4.000	- / -	- / -	- / -	- / -	13 / 14.678
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	1 / 2.000	- / -	1 / 2.000	- / -	- / -	- / -	- / -	- / -	1 / 2.000
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 10.678	- / -	- / -	1 / 2.000	- / -	1 / 2.000	2 / 4.000	- / -	- / -	- / -	- / -	14 / 16.678

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	11	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Out	11	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: E34045 / Airborne Warning and Control System
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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: 0207417F
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Line Item MDAP/MAIS Code: 277	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	191.284	178.308	223.427	-	223.427	103.420	58.154	29.309	-	-	783.902
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	191.284	178.308	223.427	-	223.427	103.420	58.154	29.309	-	-	783.902
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	191.284	178.308	223.427	-	223.427	103.420	58.154	29.309	-	-	783.902

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

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

Description:

The Airborne Warning and Control System (AWACS) Block 40/45 modification upgrades legacy E-3 mission systems computers, display processors, and displays to provide critical support to Air Force Battle Management Command and Control (BM/C2) missions. It provides the foundation required for all future AWACS enterprise modifications through a customized implementation of Commercial Off The Shelf (COTS) hardware with a software intensive architecture. The AWACS Block 40/45 Upgrade provides a single target/single track capability with an improved human-machine interface for time-critical targeting designed to increase combat effectiveness and reduce fratricide. The AWACS Block 40/45 Upgrade includes an upgrade to Electronic Support Measures (ESM) sensor data processing; data fusion of both off-board and on-board sensor data through multi-source integration (MSI); a Data Link Infrastructure (DLI) upgrade with prioritized data link bandwidth management; new battle management tools; capability to parse, allow user access to, and integrate updates to Tactical Data Information Link (TADIL)-J message formats and protocols; enhanced mission and console recording capabilities while maintaining legacy chat communications and on-board training; modification of system software to accommodate Diminishing Manufacturing Sources (DMS).

Low Rate Initial Production (LRIP) was approved for six (6) aircraft in November 2008 [one (1) buy in FY 2009, two (2) buys in FY 2010, and three (3) buys in FY 2012]. The Block 40/45 Full Rate Production was approved in November 2012 for the remaining twenty five (25) aircraft and technology refresh of the six (6) LRIP aircraft; the corresponding production contract was awarded on 27 December 2012. The FY 2015 President's Budget sought to divest seven (7) E-3 aircraft, which would have reduced the fleet size from thirty one (31) to twenty four (24). Congress did not accept the Air Force's proposed FY 2015 AWACS divestiture, and in response, the Air Force's FY 2016 President's Budget submission re-phased the E-3 force reduction of seven (7) aircraft to FY 2019. The Block 40/45 Upgrade is postured in accordance with the FY 2019 force reduction, and as such, will execute to a programmatic baseline of twenty four (24) aircraft. The divestiture of seven (7) aircraft will therefore reduce the quantity of production aircraft from twenty five (25) to eighteen (18). The development of the training systems, the Mission Crew Training Set (MCTS), Mission Computing Maintenance Trainer (MCMT), and Deployable Ground System (DGS) began in FY 2011 and each type was delivered to the user in FY 2014/2015. In FY 2013, the program office began Depot Activation activities to comply with Sources of Repair Assignment Program (SORAP) 09-063 that mandates organic hardware and software maintenance. In December 2015 the government awarded a contract to fully implement an organic software maintenance facility known as the Avionics Integration Support Facility (AISF) by FY 2019. Hardware depot activation is under consideration, with development of a Product Support Business Case Analysis (BCA) and development of a Performance Based Logistics (PBL) strategy. Funding for this modification had previously been contained in Weapon System Code (WSC) E00300, but as part of OSD's Major Programs Transparency Initiative and starting in FY15, the AWACS Block 40/45 Upgrade (MDAP) was moved to WSC E34045. Prior year funding remains in WSC E00300.

FY 2017 Plan: Program continues to complete the block mod upgrade to the 40/45 configuration (E-3G). One (1) aircraft will commence modification [Programmed Depot Maintenance (PDM) Cycle only allows for one induction in FY 2017], and five (5) of the jets that began mod in FY 2016 will be delivered to the Wing [installation schedule only shows delivery of four (4) jets in FY 2017; the other delivery is captured in the previous funding line, E00300]. This brings the total 40/45 (E-3G) to 17 Aircraft by the end of FY 2017. Due to end of life issues for a majority of the programmatic COTS equipment, the program office will have to contract for engineering support to procure the last four (4) aircraft 40/45 kits as well as retrofit the six (6) Low Rate Initial Production (LRIP) jets into this DMS configuration. The program plans to

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: E34045 / Airborne Warning and Control System
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207417F
Line Item MDAP/MAIS Code: 277	Item MDAP/MAIS Code(s): N/A	
<p>award a contract inclusive of one last Life of Type (LoT) buy to procure ten (10) B kits, six (6) to be used to retrofit the LRIP jets and the other B kits to modify the remaining Block 30/35 jets. This LoT buy is necessary to prevent creation of multiple configuration aircraft and the associated logistics footprint. Additionally, the LoT buy prevents the need for up to \$100M of non-recurring engineering to solve DMS problems associated with COTS. Finally, the program will continue to support the 552ACW at Tinker AFB and begin developing support for the 962nd Airborne Air Control Squadron at Joint Base Elmendorf-Richardson, AK and the 961st Airborne Air Control Squadron at Kadena AFB, Japan warfighter via ICS, while at the same time executing various Depot Activation activities to comply with SORAP 09-063.</p> <p>The FY 2017 funding request was reduced by \$1.01M to account for the availability of prior year execution balances.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
E34045 / Airborne Warning and Control System

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207417F

Line Item MDAP/MAIS Code: 277 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / BLOCK 40/45 BLOCK UPGRADE (Capability Improvement)			- / 0.000	- / 191.284	- / 178.308	- / 223.427	- / -	- / 223.427
P-40	Total Gross/Weapon System Cost			- / 0.000	- / 191.284	- / 178.308	- / 223.427	- / -	- / 223.427

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / BLOCK 40/45 BLOCK UPGRADE (Capability Improvement)			- / 103.420	- / 58.154	- / 29.309	- / -	- / -	- / 783.902
P-40	Total Gross/Weapon System Cost			- / 103.420	- / 58.154	- / 29.309	- / -	- / -	- / 783.902

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: E34045 / Airborne Warning and Control System				Modification Number / Title: 1 / BLOCK 40/45 BLOCK UPGRADE				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	191.284	178.308	223.427	-	223.427	103.420	58.154	29.309	-	-	783.902
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	191.284	178.308	223.427	-	223.427	103.420	58.154	29.309	-	-	783.902
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	191.284	178.308	223.427	-	223.427	103.420	58.154	29.309	-	-	783.902

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

Initial Spares <i>(\$ in Millions)</i>	17.509	2.957	5.306	4.492	-	4.492	3.169	3.226	3.282	-	-	39.941
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Airborne Warning and Control System (AWACS) Block 40/45 modification upgrades legacy E-3 mission systems computers, display processors, and displays to provide critical support to Air Force Battle Management Command and Control (BM/C2) missions. It provides the foundation required for all future AWACS enterprise modifications through a customized implementation of Commercial Off The Shelf (COTS) hardware with a software intensive architecture. The AWACS Block 40/45 Upgrade provides a single target/single track capability with an improved human-machine interface for time-critical targeting designed to increase combat effectiveness and reduce fratricide. The AWACS Block 40/45 Upgrade includes an upgrade to Electronic Support Measures (ESM) sensor data processing; data fusion of both off-board and on-board sensor data through multi-source integration (MSI); a Data Link Infrastructure (DLI) upgrade with prioritized data link bandwidth management; new battle management tools; capability to parse, allow user access to, and integrate updates to Tactical Data Information Link (TADIL)-J message formats and protocols; enhanced mission and console recording capabilities while maintaining legacy chat communications and on-board training; modification of system software to accommodate Diminishing Manufacturing Sources (DMS).

Low Rate Initial Production (LRIP) was approved for six (6) aircraft in November 2008 [one (1) buy in FY 2009, two (2) buys in FY 2010, and three (3) buys in FY 2012]. The Block 40/45 Full Rate Production was approved in November 2012 for the remaining twenty five (25) aircraft and technology refresh of the six (6) LRIP aircraft; the corresponding production contract was awarded on 27 December 2012. The FY 2015 President's Budget sought to divest seven (7) E-3 aircraft, which would have reduced the fleet size from thirty one (31) to twenty four (24). Congress did not accept the Air Force's proposed FY 2015 AWACS divestiture, and in response, the Air Force's FY 2016 President's Budget submission re-phased the E-3 force reduction of seven (7) aircraft to FY 2019. The Block 40/45 Upgrade is postured in accordance with the FY 2019 force reduction, and as such, will execute to a programmatic baseline of twenty four (24) aircraft. The divestiture of seven (7) aircraft will therefore reduce the quantity of production aircraft from twenty five (25) to eighteen (18). The development of the training systems, the Mission Crew Training Set (MCTS), Mission Computing Maintenance Trainer (MCMT), and Deployable Ground System (DGS) began in FY 2011 and each type was delivered to the user in FY 2014/2015. In FY 2013, the program office began Depot Activation activities to comply with Sources of Repair Assignment Program (SORAP) 09-063 that mandates organic hardware and software maintenance. In December 2015 the government awarded a contract to fully implement an organic software maintenance facility known as the Avionics Integration Support Facility (AISF) by FY 2019. Hardware depot activation is under consideration, with development of a Product Support Business Case Analysis (BCA) and development of a Performance Based Logistics (PBL) strategy. Funding for this modification had previously been contained in Weapon System Code (WSC) E00300, but as part of OSD's Major Programs Transparency Initiative and starting in FY15, the AWACS Block 40/45 Upgrade (MDAP) was moved to WSC E34045. Prior year funding remains in WSC E00300.

FY 2017 Plan: Program continues to complete the block mod upgrade to the 40/45 configuration (E-3G). One (1) aircraft will commence modification [Programmed Depot Maintenance (PDM) Cycle only allows for one induction in FY 2017], and five (5) of the jets that began mod in FY 2016 will be delivered to the Wing [installation schedule only shows delivery of four (4) jets in FY 2017; the other delivery is captured in the previous funding line, E00300]. This brings the total 40/45 (E-3G) to 17 Aircraft by the end of FY 2017. Due to end of life issues for a majority of the programmatic COTS equipment, the program office will have to contract for engineering support to procure the last four (4) aircraft 40/45 kits as well as retrofit the six (6) Low Rate Initial Production (LRIP) jets into this DMS configuration. The program plans to award a contract inclusive of one last Life of Type (LoT) buy to procure ten (10) B kits, six (6) to be used to retrofit the LRIP jets and the other B kits to modify the remaining Block 30/35 jets. This LoT buy is necessary to prevent creation of multiple configuration aircraft and the associated logistics footprint. Additionally, the LoT buy prevents the need for up to \$100M of non-recurring engineering to solve DMS problems associated with COTS. Finally, the program will continue to support the the 552ACW at Tinker AFB and begin developing support for the 962nd Airborne Air Control Squadron at Joint Base Elmendorf-Richardson, AK and the 961st Airborne Air Control Squadron at Kadena AFB, Japan warfighter via ICS, while at the same time executing various Depot Activation activities to comply with SORAP 09-063.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E34045 / Airborne Warning and Control System	Modification Number / Title: 1 / BLOCK 40/45 BLOCK UPGRADE

Milestone/Development Status

11/08 - Completed Aircraft Block 40/45 Development (Milestone C/LRIP), 08/11 - Completed Aircraft Block 40/45 Pre-Production, 11/13 - Completed Development of MCMT, 02/14 - Completed Development of MCTS, 06/14 - Completed Development of DGS/GS, 06/14 - Last (6th) LRIP Jet Delivered, First Production Jet Inducted, 07/14 - IOC Declared by ACC/CC.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: E34045 / Airborne Warning and Control System						Modification Number / Title: 1 / BLOCK 40/45 BLOCK UPGRADE			
Models of Systems Affected: E-3				Modification Type: Capability Improvement				Related RDT&E PEs: 0207417F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Block 4045													
A Kits													
Recurring													
Block 4045:INSTALL KITS Group A (Active)	- / 0.000	5 / 36.634	2 / 17.407	4 / 31.781	- / -	4 / 31.781	- / -	- / -	- / -	- / -	- / -	11 / 85.822	
<i>Subtotal: Recurring</i>	- / 0.000	- / 36.634	- / 17.407	- / 31.781	- / -	- / 31.781	- / -	- / -	- / -	- / -	- / -	- / 85.822	
B Kits													
Recurring													
Block 4045:EQUIPMENT Group B (Active)	- / 0.000	- / 14.170 ⁽¹⁾	- / 5.668	10 ⁽²⁾ / 48.038	- / -	10 / 48.038	- / -	- / -	- / -	- / -	- / -	10 / 67.876	
<i>Subtotal: Recurring</i>	- / 0.000	- / 14.170	- / 5.668	- / 48.038	- / -	- / 48.038	- / -	- / -	- / -	- / -	- / -	- / 67.876	
<i>Subtotal: Block 4045</i>	- / 0.000	- / 50.804	- / 23.075	- / 79.819	- / -	- / 79.819	- / -	- / -	- / -	- / -	- / -	- / 153.698	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 50.804	- / 23.075	- / 79.819	- / -	- / 79.819	- / -	- / -	- / -	- / -	- / -	- / 153.698	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / 32.979	- / 76.452 ⁽³⁾	- / 14.265	- / -	- / 14.265	- / -	- / -	- / -	- / -	- / -	- / 123.696	
Make New Selection	- / -	- / 141.255	- / 33.993	- / 38.371	- / -	- / 38.371	- / 141.901	- / 10.416	- / 13.014	- / -	- / -	- / 178.950	
Change Orders	- / -	- / 12.358	- / 10.660	- / 10.903	- / -	- / 10.903	- / 9.348	- / 10.342	- / 8.767	- / -	- / -	- / 22.378	
Data	- / -	- / 10.093	- / 10.094	- / 10.095	- / -	- / 10.095	- / 10.096	- / 10.097	- / -	- / -	- / -	- / 10.475	
SIM/TRAINER	- / -	- / -	- / -	2 / 14.150	- / -	2 / 14.150	- / -	- / -	- / -	- / -	- / -	2 / 14.150	
SUPPORT-EQUIP	- / -	- / 33.675	- / -	- / 33.615	- / -	- / 33.615	- / -	- / -	- / -	- / -	- / -	- / 67.290	
ICS-Labor	- / -	- / 15.391	- / 24.611	- / 27.525	- / -	- / 27.525	- / 27.723	- / 27.920	- / -	- / -	- / -	- / 123.170	
OTHER GOVT	- / -	- / 10.770	- / 10.723	- / 11.044	- / -	- / 11.044	- / 6.745	- / 10.836	- / 10.799	- / -	- / -	- / 10.917	
PMA - Other Gov't Costs	- / -	- / 13.183	- / 12.903	- / 13.974	- / -	- / 13.974	- / 1.776	- / 1.505	- / 10.702	- / -	- / -	- / 14.043	
PMA - Contractor Services	- / -	- / 13.999	- / 14.074	- / 14.154	- / -	- / 14.154	- / 14.237	- / 14.322	- / 14.408	- / -	- / -	- / 25.194	
<i>Subtotal: Support</i>	- / -	- / 133.703	- / 143.510	2 / 138.096	- / -	2 / 138.096	- / 91.826	- / 45.438	- / 27.690	- / -	- / -	2 / 580.263	
Installation													
<i>Modification Item 1 of 1:</i> Block 4045	- / -	- / 6.777	3 / 11.723	1 / 5.512	- / -	1 / 5.512	3 / 11.594	4 / 12.716	- / 1.619	- / -	- / -	11 / 49.941	
<i>Subtotal: Installation</i>	- / -	- / 6.777	3 / 11.723	1 / 5.512	- / -	1 / 5.512	3 / 11.594	4 / 12.716	- / 1.619	- / -	- / -	11 / 49.941	
Total													
Total Cost (Procurement + Support + Installation)	0.000	191.284	178.308	223.427	-	223.427	103.420	58.154	29.309	-	-	783.902	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E34045 / Airborne Warning and Control System	Modification Number / Title: 1 / BLOCK 40/45 BLOCK UPGRADE

Modification Item 1 of 1: Block 4045

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Seattle
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 16

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2014 ⁽⁴⁾	May 2015 ⁽⁵⁾	Mar 2016 ⁽⁶⁾				
Delivery Dates	Apr 2016	Jun 2017	Apr 2018				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / 16.777	- / 4.689	- / 3.144	- / -	- / 3.144	- / 4.419	- / 3.053	- / 1.619	- / -	- / -	- / 23.701
FY 2015	- / -	- / -	3 / 7.034	1 / 2.368	- / -	1 / 2.368	1 / 2.392	- / -	- / -	- / -	- / -	5 / 11.794
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.783	- / -	- / -	- / -	- / -	2 / 4.783
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 9.663	- / -	- / -	- / -	4 / 9.663
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / 16.777	3 / 11.723	1 / 5.512	- / -	1 / 5.512	3 / 11.594	4 / 12.716	- / 1.619	- / -	- / -	11 / 49.941

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	1	1	1	1	-	-	-	1	1	-	1	1	-	1	2	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	-	-	-	2	1	1	-	-	-	1	1	-	1	1	-	1	1	1	-	-	-	-	-	-

Footnotes:

- (1) Group B Equipment includes the remaining Commercial Off the Shelf (COTS) hardware not purchased as part of the Life of Type (LOT) buys in FY12 and FY17
- (2) Group B Equipment includes Commercial Off the Shelf (COTS) hardware purchased in Life of Type (LOT) buys in FY12 and FY17
- (3) Group B Nonrecurring includes active Diminishing Manufacturing Sources (DMS) surveillance and the Engineering Support to the DMS Upgrade required prior to the purchase of the COTS Life of Type buys

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E34045 / Airborne Warning and Control System	Modification Number / Title: 1 / BLOCK 40/45 BLOCK UPGRADE
<p>⁽⁴⁾ Administrative Lead time for contract awards planned in Dec includes preparations and processes that begin during the previous FY. Contracting action began Mar 14, Contract award Dec 14, and first delivery Apr 16.</p> <p>⁽⁵⁾ Administrative Lead time for contract awards planned in Feb includes preparations and processes that begin during the previous FY. Contracting action began May 15, Contract award Feb 16, and first delivery Jun 17.</p> <p>⁽⁶⁾ Administrative Lead time for contract awards planned in Dec includes preparations and processes that begin during the previous FY. Contracting action began Mar 16, Contract award Dec 16, and first delivery Apr 18.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: FBLOST / Family of Beyond Line-of-Sight Terminals
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0303001F, 0303601F	Other Related Program Elements: 0303601F
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Line Item MDAP/MAIS Code: 199	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	27.026	43.843	4.673	-	4.673	22.216	14.410	1.985	1.589	-	115.742
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	27.026	43.843	4.673	-	4.673	22.216	14.410	1.985	1.589	-	115.742
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	27.026	43.843	4.673	-	4.673	22.216	14.410	1.985	1.589	-	115.742

(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 Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) program replaces legacy Milstar terminals and will provide Extremely High Frequency (EHF), protected high data rate communication for nuclear and conventional forces to include Presidential and National Voice Conferencing (PNVC). FAB-T will provide this new, highly secure, state-of-the-art capability for DoD platforms to include strategic platforms and airborne/ground command posts via Milstar, AEHF, and Enhanced Polar System (EPS) satellites. FAB-T terminals will also support the critical command and control (C2) of the Milstar, AEHF, and EPS satellite constellations. Funding in FY17 will continue program office support and production activities including low rate initial production of airborne terminals. In June 2014 the Air Force down-selected to Raytheon for production of FAB-T Command Post Terminals (CPT). Production contract options to produce CPT terminals were exercised after a successful Milestone C decision was approved September 1, 2015.

The quantities in the P-1 Exhibit for this program were loaded in error.

In FY16, funding for President of the United States (POTUS) aircraft terminal platform installation and integration was transferred to PE: 0401314F.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
FBLOST / Family of Beyond Line-of-Sight Terminals

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0303001F, 0303601F **Other Related Program Elements:** 0303601F

Line Item MDAP/MAIS Code: 199 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	FBLOST - 01 / Family of Beyond Line-of-Sight Terminals (Capability Improvement)			- / -	- / 27.026	- / 43.843	- / 4.673	- / -	- / 4.673
P-40	Total Gross/Weapon System Cost			- / -	- / 27.026	- / 43.843	- / 4.673	- / -	- / 4.673

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	FBLOST - 01 / Family of Beyond Line-of-Sight Terminals (Capability Improvement)			- / 22.216	- / 14.410	- / 1.985	- / 1.589	- / -	- / 115.742
P-40	Total Gross/Weapon System Cost			- / 22.216	- / 14.410	- / 1.985	- / 1.589	- / -	- / 115.742

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

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

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: H00100 / H-1
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0101235F, 0804747F	Other Related Program Elements: 0101235F, 0401314F, 0804747F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	186.870	8.237	6.291	9.007	-	9.007	3.725	2.965	2.721	2.770	-	222.586
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	186.870	8.237	6.291	9.007	-	9.007	3.725	2.965	2.721	2.770	-	222.586
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	186.870	8.237	6.291	9.007	-	9.007	3.725	2.965	2.721	2.770	-	222.586

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

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

Description:

This line item funds modifications to UH-1N and UH-1H/TH-1H aircraft. The two-engine UH-1N is a light, utility helicopter primarily used for missile site and range support and distinguished visitor airlift support. There are 62 UH-1N aircraft in the inventory. They were built with an estimated service life of 10,000 flight hours and are not service limited due to on-going modifications and upgrades. There are 28 TH-1H aircraft in the inventory. They are used in the helicopter track for USAF Specialized Undergraduate Pilot Training. The TH-1H modernization modification provided a service life of 20 years, the last one was delivered in 2013.

Funding in this exhibit is contained in PE 0101235F, PE 0401314F, and PE 0804747F.

The FY 2017 funding request was reduced by \$0.050 million to account for the availability of prior year execution balances.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
H00100 / H-1

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0101235F, 0804747F **Other Related Program Elements:** 0101235F, 0401314F, 0804747F

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	_1135 / UH-1N SIMULATOR UPGRADE (Service Life Extension)			- / 1.820	- / -	- / -	- / -	- / -	- / -
P-40a***	_2802 / HUEY II MODERNIZATION (Service Life Extension)			- / 159.299	- / 0.997	- / 1.014	- / 1.003	- / -	- / 1.003
P-40a***	3149T / TRAFFIC ALERT & COLLISION AVOIDANCE SYSTEM (Capability Improvement)			- / 10.750	- / 4.750	- / -	- / -	- / -	- / -
P-40a***	8847 / UH-1N Safety Modifications (Safety)			- / 11.200	- / -	- / -	- / -	- / -	- / -
P-40a***	8848 / AETC FLIR (Capability Improvement)			- / -	- / 0.500	- / 1.800	- / 1.900	- / -	- / 1.900
P-40a***	8849 / USMC Missionization (Capability Improvement)			- / -	- / -	- / 0.028	- / 1.634	- / -	- / 1.634
P-40a***	8850 / Simulator Concurrency (Other)			- / -	- / 0.075	- / 1.651	- / 1.189	- / -	- / 1.189
P-40a***	8860 / Automatic Dependent Surveillance - Broadcast (Capability Improvement)			- / -	- / -	- / -	- / 1.938	- / -	- / 1.938
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 3.801	- / 1.915	- / 1.798	- / 1.343	- / -	- / 1.343
P-40	Total Gross/Weapon System Cost			- / 186.870	- / 8.237	- / 6.291	- / 9.007	- / -	- / 9.007

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	_1135 / UH-1N SIMULATOR UPGRADE (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / 1.820
P-40a***	_2802 / HUEY II MODERNIZATION (Service Life Extension)			- / 1.037	- / 1.055	- / 1.078	- / 1.097	- / -	- / 166.580
P-40a***	3149T / TRAFFIC ALERT & COLLISION AVOIDANCE SYSTEM (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 15.500
P-40a***	8847 / UH-1N Safety Modifications (Safety)			- / -	- / -	- / -	- / -	- / -	- / 11.200
P-40a***	8848 / AETC FLIR (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 4.200
P-40a***	8849 / USMC Missionization (Capability Improvement)			- / 0.786	- / -	- / -	- / -	- / -	- / 2.448
P-40a***	8850 / Simulator Concurrency (Other)			- / -	- / -	- / -	- / -	- / -	- / 2.915
P-40a***	8860 / Automatic Dependent Surveillance - Broadcast (Capability Improvement)			- / 0.546	- / 0.546	- / -	- / -	- / -	- / 3.030
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 1.356	- / 1.364	- / 1.643	- / 1.673	- / -	- / 14.893
P-40	Total Gross/Weapon System Cost			- / 3.725	- / 2.965	- / 2.721	- / 2.770	- / -	- / 222.586

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

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

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: H0106O / UH-1N Replacement
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0102110F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	2.456	-	-	-	-	-	-	-	-	2.456
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	2.456	-	-	-	-	-	-	-	-	2.456
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	2.456	-	-	-	-	-	-	-	-	2.456

(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 UH-1N Replacement program will replace the Air Force fleet of UH-1N aircraft with modern helicopters that will close significant mission capability gaps associated with the current fleet of UH-1N aircraft. The replacement aircraft will provide vertical airlift and support the requirements of five Air Force major commands and operating agencies: Air Force Global Strike Command (AFGSC), Air Force District of Washington, Air Education and Training Command, Pacific Air Forces, and Air Force Materiel Command. AFGSC is the Air Force lead command and operational capability requirements sponsor. This program is an element of the Air Force's nuclear enterprise reform initiatives.

This modification program was established in the FY2016 President's Budget based on an assumption the UH-1N Replacement solution was likely to involve the modification of in-service military helicopters. Based on subsequent analysis of this assumption and other programmatic options, the Air Force determined that modification of in-service aircraft was a sub-optimal solution for this requirement. The FY2017 President's Budget reflects the movement of funding from this modification program (BA05) to the aircraft procurement account (BA04).

Funding for this exhibit contained in PE 0102110F.

No Budget Year FY17 funding requested.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
H0106O / UH-1N Replacement

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8910 / UH-1N Replacement (Capability Improvement)			- / -	- / -	- / 2.456	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / 2.456	- / -	- / -	- / -

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8910 / UH-1N Replacement (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 2.456
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 2.456

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

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

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: H06000 / H-60
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207224F, 0207228F	Other Related Program Elements: 0207224F, 0207228F
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Line Item MDAP/MAIS Code: None	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	673.390	60.110	67.054	91.357	-	91.357	75.868	44.521	32.880	26.567	4.080	1,075.827
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	673.390	60.110	67.054	91.357	-	91.357	75.868	44.521	32.880	26.567	4.080	1,075.827
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	673.390	60.110	67.054	91.357	-	91.357	75.868	44.521	32.880	26.567	4.080	1,075.827

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

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

Description:

This line item funds modifications to the HH-60G helicopter. The HH-60G currently supports the Air Force's core function of Personnel Recovery. The primary mission of the HH-60G is to conduct day / night / marginal weather Combat Search and Rescue (CSAR) in order to recover isolated personnel in hostile or permissive environments. Other mission areas include casualty evacuation (CASEVAC), medical evacuation (MEDEVAC), non-combatant evacuation operations, civil search and rescue, international aid, disaster humanitarian relief, and insertion/extraction of combat forces. There are currently 97 aircraft, at 24 years average age, remaining of the original 112 HH-60Gs.

The modification efforts budgeted in FY17 provide predictive maintenance analysis, safety/survivability upgrades, mission avionics upgrades, operational loss replacement mission modifications, and addresses obsolescence issues.

FY16 funding totals include \$39.3M for Overseas Contingency Operations.

Funding for this exhibit is contained in PE 0207224F and PE 0207228F.

The FY17 funding request was reduced by \$9.7M to account for the availability of prior year execution balances.

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

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	58.260	62.512	73.425	-	73.425	45.019	29.256	20.980
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.370	0.431	15.189	-	15.189	25.410	8.295	6.090

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: H06000 / H-60
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207224F, 0207228F	Other Related Program Elements: 0207224F, 0207228F
Line Item MDAP/MAIS Code: None	Item MDAP/MAIS Code(s): N/A	

		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.480	4.111	2.743	-	2.743	5.439	6.970	5.810	3.535
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	60.110	67.054	91.357	-	91.357	75.868	44.521	32.880	26.567

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
H06000 / H-60

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207224F, 0207228F **Other Related Program Elements:** 0207224F, 0207228F

Line Item MDAP/MAIS Code: None **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8254 / ALTITUDE HOLD AND HOVER SYSTEM (AHHS) (Capability Improvement)			- / 34.471	- / 0.703	- / 0.599	- / 0.010	- / -	- / 0.010
P-40a***	8496 / KIRTLAND SIM UPGRADES (Other)			- / 37.778	- / -	- / -	- / -	- / -	- / -
P-40a***	8560 / SERVICE LIFE EXTENSION PROGRAM (Service Life Extension)			- / 38.307	- / -	- / -	- / -	- / -	- / -
P-40a***	8563 / LIGHTWEIGHT AIRBORNE RECOVERY SYSTEM V12 UPGRADE (Capability Improvement)			- / 22.661	- / 1.001	- / 0.390	- / -	- / -	- / -
P-40a***	8564 / Control Display Unit (CDU) (Capability Improvement)			- / 13.044	- / 0.010	- / 0.010	- / 0.210	- / -	- / 0.210
P-40a***	8565 / Navigation System Upgrade (NSU) (Capability Improvement)			- / 56.400	- / 0.727	- / 1.245	- / 3.190	- / -	- / 3.190
P-40a***	8840 / Vibration Monitoring System (VMS) (Reliability & Maintainability)			- / 34.249	- / 4.779	- / 1.885	- / 0.010	- / -	- / 0.010
P-40a***	8841 / Situation Awareness Data-Link (Capability Improvement)			- / 21.957	- / -	- / -	- / -	- / -	- / -
P-40a***	8844 / Multi-function Color Display (Capability Improvement)			- / 29.859	- / 0.320	- / 1.456	- / 1.259	- / -	- / 1.259
P-40a***	8852 / CSAR Avionics/Electrical Upgrade (Capability Improvement)			- / 10.960	- / 3.759	- / 0.758	- / 0.620	- / -	- / 0.620
P-40a***	8853 / DEFENSIVE SYSTEM UPGRADE (Capability Improvement)			- / 14.999	- / 0.020	- / -	- / 0.010	- / -	- / 0.010
P-40a***	8855 / Ballistic Protection Enhancement (Capability Improvement)			- / 1.887	- / 0.010	- / -	- / -	- / -	- / -
P-40a***	8856 / Block 162 (Service Life Extension)			- / -	- / -	- / 51.489	- / 1.336	- / -	- / 1.336
P-40a***	8857 / Rotor Brake (Capability Improvement)			- / -	- / -	- / 3.000	- / 0.010	- / -	- / 0.010
P-40a***	99999S / SERVICE BULLETINS (Other)			- / 0.091	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Other)			- / 3.910	- / 1.448	- / 0.277	- / 0.464	- / -	- / 0.464
P-3a	8850 / MODE 5 (Capability Improvement)			- / 12.225	- / 0.670	- / 0.908	- / 8.620	- / -	- / 8.620
P-3a	8851 / Gun Replacement (Reliability & Maintainability)			- / 17.839	- / 2.381	- / -	- / 10.164	- / -	- / 10.164
P-3a	8854 / HH-60 OLR Mission Modifications (Other)			- / 322.753	- / 44.282	- / 5.037	- / 53.754	- / -	- / 53.754
P-3a	8859 / DVE Sensor (Capability Improvement)			- / -	- / -	- / -	- / 11.700	- / -	- / 11.700
P-40	Total Gross/Weapon System Cost			- / 673.390	- / 60.110	- / 67.054	- / 91.357	- / -	- / 91.357

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8254 / ALTITUDE HOLD AND HOVER SYSTEM (AHHS) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 35.783
P-40a***	8496 / KIRTLAND SIM UPGRADES (Other)			- / -	- / -	- / -	- / -	- / -	- / 37.778
P-40a***	8560 / SERVICE LIFE EXTENSION PROGRAM (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / 38.307
P-40a***	8563 / LIGHTWEIGHT AIRBORNE RECOVERY SYSTEM V12 UPGRADE (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 24.052
P-40a***	8564 / Control Display Unit (CDU) (Capability Improvement)			- / 5.563	- / -	- / -	- / -	- / -	- / 18.837
P-40a***	8565 / Navigation System Upgrade (NSU) (Capability Improvement)			- / 2.445	- / 0.100	- / -	- / -	- / -	- / 64.107
P-40a***	8840 / Vibration Monitoring System (VMS) (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 40.923
P-40a***	8841 / Situation Awareness Data-Link (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 21.957

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft **P-1 Line Item Number / Title:**
H06000 / H-60

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207224F, 0207228F **Other Related Program Elements:** 0207224F, 0207228F

Line Item MDAP/MAIS Code: None **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8844 / Multi-function Color Display (Capability Improvement)			- / 0.445	- / -	- / -	- / -	- / -	- / 33.339
P-40a***	8852 / CSAR Avionics/Electrical Upgrade (Capability Improvement)			- / 0.618	- / -	- / -	- / -	- / -	- / 16.715
P-40a***	8853 / DEFENSIVE SYSTEM UPGRADE (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 15.029
P-40a***	8855 / Ballistic Protection Enhancement (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 1.897
P-40a***	8856 / Block 162 (Service Life Extension)			- / 23.264	- / 30.078	- / 21.153	- / 21.607	- / 4.080	- / 153.007
P-40a***	8857 / Rotor Brake (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 3.010
P-40a***	99999S / SERVICE BULLETINS (Other)			- / -	- / -	- / -	- / -	- / -	- / 0.091
P-40a***	99999X / Low Cost Modifications (Other)			- / 1.672	- / 1.883	- / 1.917	- / 1.950	- / -	- / 13.521
P-3a	8850 / MODE 5 (Capability Improvement)			- / 1.692	- / 0.050	- / -	- / -	- / -	- / 24.165
P-3a	8851 / Gun Replacement (Reliability & Maintainability)			- / 3.501	- / -	- / -	- / -	- / -	- / 33.885
P-3a	8854 / HH-60 OLR Mission Modifications (Other)			- / 23.368	- / 0.410	- / 0.410	- / 0.410	- / -	- / 450.424
P-3a	8859 / DVE Sensor (Capability Improvement)			- / 13.300	- / 12.000	- / 9.400	- / 2.600	- / -	- / 49.000
P-40	Total Gross/Weapon System Cost			- / 75.868	- / 44.521	- / 32.880	- / 26.567	- / 4.080	- / 1,075.827

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

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

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

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: H06000 / H-60					Modification Number / Title: 8850 / MODE 5	

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	12.225	0.670	0.908	8.620	-	8.620	1.692	0.050	-	-	-	24.165
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	12.225	0.670	0.908	8.620	-	8.620	1.692	0.050	-	-	-	24.165
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	12.225	0.670	0.908	8.620	-	8.620	1.692	0.050	-	-	-	24.165

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

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

Description:

A modification proposal (AF Form 1067, ACC 02-136) has been approved to install an improved IFF system on the HH-60G offering Mode S. The HH-60G Mode S modification program executes an OSD mandated upgrade to all DoD aircraft IFF systems--the primary means of aircraft identification during Air Defense operations. It provides the HH-60G with a system that uses modern modulation, coding, and cryptographic techniques to overcome performance and security limitations in the current systems, and provides expanded data handling capabilities to securely pass GPS position and other data. FY12 Kit purchases were cut back to 41ea. Remaining 56 kits will be purchased when Milestone C is reached. Program schedule was delayed by 24 months by HQ ACC direction due to other testing priorities. Production installations will be a combination of Depot and Depot Field Teams to maximize Air Force resources and minimize downtime. FY17 funding procures the remaining 56 kits and funds Production Installs and Program Management Activities.

Milestone/Development Status

RDT&E is not a component of this effort. After delays due to test asset prioritization, trial kit install and ground & flight testing began 1QFY16, leading to a Milestone C decision planned for 3QFY16.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.670	0.665	6.079	-	6.079	1.215	0.050	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.070	1.409	-	1.409	0.314	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.173	1.132	-	1.132	0.163	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.670	0.908	8.620	-	8.620	1.692	0.050	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: H06000 / H-60					Modification Number / Title: 8850 / MODE 5		
Models of Systems Affected: HH-60G				Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
RDT&E PE #												
0207224F	- / 0.690	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.690
Procurement												
Modification Item 1 of 1: Mode 5 Kit												
A Kits												
Recurring												
Mode 5 Kit:INSTALL KITS Group A (Active)	65 / 0.476	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 0.476
Mode 5 Kit:INSTALL KITS Group A (Guard)	17 / 0.124	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.124
Mode 5 Kit:INSTALL KITS Group A (Reserve)	15 / 0.110	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.110
Subtotal: Recurring	- / 0.710	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.710
B Kits												
Recurring												
Mode 5 Kit:EQUIPMENT Group B (Active)	27 / 5.806	- / -	- / -	38 / 4.343	- / -	38 / 4.343	- / -	- / -	- / -	- / -	- / -	65 / 10.149
Mode 5 Kit:EQUIPMENT Group B (Guard)	7 / 1.448	- / -	- / -	10 / 1.143	- / -	10 / 1.143	- / -	- / -	- / -	- / -	- / -	17 / 2.591
Mode 5 Kit:EQUIPMENT Group B (Reserve)	7 / 1.333	- / -	- / -	8 / 0.914	- / -	8 / 0.914	- / -	- / -	- / -	- / -	- / -	15 / 2.247
Subtotal: Recurring	- / 8.587	- / -	- / -	- / 6.400	- / -	- / 6.400	- / -	- / -	- / -	- / -	- / -	- / 14.987
Subtotal: Mode 5 Kit	- / 9.297	- / -	- / -	- / 6.400	- / -	- / 6.400	- / -	- / -	- / -	- / -	- / -	- / 15.697
Subtotal: Procurement, All Modification Items	- / 9.297	- / -	- / -	- / 6.400	- / -	- / 6.400	- / -	- / -	- / -	- / -	- / -	- / 15.697
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 0.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.018
GROUP B: TOTAL NONRECURRING	- / 0.172	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.172
Data	- / -	- / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.150
SIM/TRAINER	3 / 0.814	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.814
OTHER GOVT	- / 0.230	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.430
OTHER GOVT (1)	- / 0.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.616
PMA - Contractor Services	- / 1.078	- / 0.300	- / 0.300	- / 0.500	- / -	- / 0.500	- / 0.425	- / -	- / -	- / -	- / -	- / 2.603
PMA - Other Gov't Costs	- / -	- / 0.020	- / 0.020	- / 0.020	- / -	- / 0.020	- / 0.020	- / -	- / -	- / -	- / -	- / 0.080
Subtotal: Support	3 / 2.928	- / 0.670	- / 0.320	- / 0.520	- / -	- / 0.520	- / 0.445	- / -	- / -	- / -	- / -	3 / 4.883
Installation												
Modification Item 1 of 1: Mode 5 Kit	- / -	- / -	19 / 0.588	45 / 1.700	- / -	45 / 1.700	32 / 1.247	1 / 0.050	- / -	- / -	- / -	97 / 3.585
Subtotal: Installation	- / -	- / -	19 / 0.588	45 / 1.700	- / -	45 / 1.700	32 / 1.247	1 / 0.050	- / -	- / -	- / -	97 / 3.585
Total												

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Exhibit P-3a, Individual Modification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8850 / MODE 5
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Models of Systems Affected: HH-60G **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0207224F

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total Cost (Procurement + Support + Installation)	12.225	0.670	0.908	8.620	-	8.620	1.692	0.050	-	-	-	24.165

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8850 / MODE 5

Modification Item 1 of 1: Mode 5 Kit

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Waltham MA
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Nov 2016				
Delivery Dates			Mar 2017				

Installation Information

Method of Implementation: Depot Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	19 / 0.588	22 / 0.836	- / -	22 / 0.836	- / -	- / -	- / -	- / -	- / -	41 / 1.424
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	23 / 0.864	- / -	23 / 0.864	32 / 1.247	1 / 0.050	- / -	- / -	- / -	56 / 2.161
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	19 / 0.588	45 / 1.700	- / -	45 / 1.700	32 / 1.247	1 / 0.050	- / -	- / -	- / -	97 / 3.585

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot										
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4												
In	0	-	-	-	-	-	-	9	10	11	11	12	11	8	8	8	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	
Out	0	-	-	-	-	-	-	-	9	10	11	11	12	11	8	8	8	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: H06000 / H-60				Modification Number / Title: 8851 / Gun Replacement				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	17.839	2.381	-	10.164	-	10.164	3.501	-	-	-	-	33.885
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	17.839	2.381	-	10.164	-	10.164	3.501	-	-	-	-	33.885
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	17.839	2.381	-	10.164	-	10.164	3.501	-	-	-	-	33.885

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

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

Description:

This program is executed in response to AF 1067, SOC 08902. This program will execute congressionally added funds for a replacement to the aging GAU-18, .50 caliber machine gun. A .50 caliber machine gun can be mounted on the left and right side weapon mounts of the HH-60G Pavehawk for use as a crew served, or pilot operated, defensive gun system in hostile environments. The funded replacement gun system (GAU-21) will incorporate increased reliability and enhanced safety features to eliminate accidental weapons discharge from cook-offs (overheating of the gun itself). A gun system consists of the gun itself, a cradle, and a weapon's mount for attachment to the helicopter. Two guns are to be fielded on each helicopter. Gun systems are organic and intermediate level installs. Guns will be installed based on aircraft availability. Funds will be utilized to execute integration of gun replacement, kit proof, trial installation, and procurement of 112 gun systems (99 installs/13 spares). Kit includes 2 weapons and associated mounting hardware.

During initial testing, it was discovered that the Electronic Control Unit (ECU) used in the existing GAU-18 installation was inadequate to support the GAU-21, and procurement of a modified ECU is required to retain fixed-forward firing (pilot-operated) capability with the GAU-21 installed. ECU kits each contain 2 ECUs, and the total quantity of ECU kits reflects the additional aircraft entering the fleet in FY16 from the Operational Loss Replacement program.

Design and fabrication of the gun mounts and associated ammunition feed hardware is performed organically by the US Naval Surface Warfare Center-Crane, Indiana (NSWC-Crane). Funds budgeted as "Other Government" in FY17 and FY18 will cover costs of tasking NSWC-Crane to implement any design changes identified during testing planned for FY16, such as revision of the ammunition can.

FY16 funding was reduced by a Congressional mark. FY17 funding provides for procurement of Electronic Control Units necessary to retain forward-fire capability with the GAU-21 gun installed, and Program Management Activities.

Milestone/Development Status

RDT&E funding is not a component of this effort. Trial install and testing are scheduled for FY16, using prior-year funding.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.381	-	7.924	-	7.924	3.501	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.190	-	1.190	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: H06000 / H-60				Modification Number / Title: 8851 / Gun Replacement			

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
	Total Obligation Authority	-	-	1.050	-	1.050	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	2.381	-	10.164	-	10.164	3.501	-	-	-

<p>Empty table area for secondary distribution details.</p>										
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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: H06000 / H-60					Modification Number / Title: 8851 / Gun Replacement			
Models of Systems Affected: HH-60G				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207224F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 2: Electronic Control Unit													
A Kits													
Recurring													
Electronic Control Unit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	86 / 6.029	- / -	86 / 6.029	- / -	- / -	- / -	- / -	- / -	86 / 6.029	
Electronic Control Unit:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	17 / 1.190	- / -	17 / 1.190	- / -	- / -	- / -	- / -	- / -	17 / 1.190	
Electronic Control Unit:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	15 / 1.050	- / -	15 / 1.050	- / -	- / -	- / -	- / -	- / -	15 / 1.050	
Subtotal: Recurring	- / -	- / -	- / -	- / 8.269	- / -	- / 8.269	- / -	- / -	- / -	- / -	- / -	- / 8.269	
Subtotal: Electronic Control Unit	- / -	- / -	- / -	- / 8.269	- / -	- / 8.269	- / -	- / -	- / -	- / -	- / -	- / 8.269	
Modification Item 2 of 2: GAU21 Kit													
A Kits													
Recurring													
GAU21 Kit:INSTALL KITS Group A (Active)	65 / 4.221	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 4.221	
GAU21 Kit:INSTALL KITS Group A (Guard)	17 / 1.104	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 1.104	
GAU21 Kit:INSTALL KITS Group A (Reserve)	15 / 0.974	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.974	
Subtotal: Recurring	- / 6.299	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.299	
B Kits													
Recurring													
GAU21 Kit:EQUIPMENT Group B (Active)	67 / 4.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 4.447	
GAU21 Kit:EQUIPMENT Group B (Guard)	17 / 1.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 1.130	
GAU21 Kit:EQUIPMENT Group B (Reserve)	15 / 0.996	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.996	
Subtotal: Recurring	- / 6.573	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.573	
Subtotal: GAU21 Kit	- / 12.872	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.872	
Subtotal: Procurement, All Modification Items	- / 12.872	- / -	- / -	- / 8.269	- / -	- / 8.269	- / -	- / -	- / -	- / -	- / -	- / 21.141	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 0.126	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.126	
GROUP B: TOTAL NONRECURRING	- / -	- / 1.610	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.610	
Data	- / 0.481	- / 0.243	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.724	
SIM/TRAINER	3 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.100	
SUPPORT-EQUIP	- / 0.344	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.344	
PMA - Contractor Services	- / 0.600	- / 0.300	- / -	- / 0.400	- / -	- / 0.400	- / 0.425	- / -	- / -	- / -	- / -	- / 1.725	
PMA - Other Gov't Costs	- / 0.040	- / 0.020	- / -	- / 0.020	- / -	- / 0.020	- / 0.020	- / -	- / -	- / -	- / -	- / 0.100	
OTHER GOVT	- / 0.523	- / 0.208	- / -	- / 1.475	- / -	- / 1.475	- / 3.056	- / -	- / -	- / -	- / -	- / 5.262	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: H06000 / H-60						Modification Number / Title: 8851 / Gun Replacement		
Models of Systems Affected: HH-60G				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207224F				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
OTHER GOVT (1)	- / 0.405	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.405
PMA - Contractor Services (1)	- / 2.348	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.348
Subtotal: Support	3 / 4.967	- / 2.381	- / -	- / 1.895	- / -	- / 1.895	- / 3.501	- / -	- / -	- / -	- / -	3 / 12.744
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	17.839	2.381	-	10.164	-	10.164	3.501	-	-	-	-	33.885

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8851 / Gun Replacement
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Modification Item 1 of 2: Electronic Control Unit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017				
Delivery Dates			Jul 2017				

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 118
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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8851 / Gun Replacement
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Modification Item 2 of 2: GAU21 Kit

Manufacturer Information

Manufacturer Name: Naval Surface Warfare Center Crane	Manufacturer Location: Crane, Indiana
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Administrative Leadtime (<i>in Months</i>): 12	Production Leadtime (<i>in Months</i>): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 99
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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: H06000 / H-60			Modification Number / Title: 8854 / HH-60 OLR Mission Modifications				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	322.753	44.282	5.037	53.754	-	53.754	23.368	0.410	0.410	0.410	-	450.424
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	322.753	44.282	5.037	53.754	-	53.754	23.368	0.410	0.410	0.410	-	450.424
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	322.753	44.282	5.037	53.754	-	53.754	23.368	0.410	0.410	0.410	-	450.424

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

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

Description:

A Program Management Directive (PMD), dated 17 Jul 09 directed AFLCMC/WIU to accomplish the HH-60 Operational Loss Replacement (OLR) Mission Modification Program. The OLR program upgrades 21 Army UH-60L aircraft to the current Air Force HH-60G configuration, creating the Block 162 configuration. One OLR mission modification kit, made up of individual components for each system, will be installed per aircraft, for a total of 21 kits. This will require Non-Recurring Engineering (NRE) to develop a consolidated engineering package for installation. Two kits will be installed during this NRE and trial install effort.

Long lead items will be procured as required to ensure they are available when needed. Long lead items include Group B Equipment such as: the avionics components, air refueling probes, and various specialized structures including, but not limited to, Color Weather RADAR (CWR) and Forward Looking Infrared (FLIR) fairings.

Required NRE, Prototype, Trial Install Kit Proof, Technical Data Updated and Modernization, and Software Lab support will be accomplished through existing US Army contracts where able. Additionally, reports will be requested in support of this effort that include but are not limited to: economic service life, aircraft system specification, information support and aircraft modernization.

The aircraft modification installation will be accomplished using a contractor facility. As a result of the age of the current aircraft, obsolescence is a major concern. Initial estimates indicate there are specific mission systems that need to be replaced including, but not limited to; CWR, Symbol Generator, ARC-210 Radios, and the APR-39(B)V2 Radar Warning Receiver. Replacements have been identified for many of these components; however, some NRE may be required for aircraft integration. Additional NRE may be required for other obsolete systems/components that are identified during the effort.

New components will require a software development node in order to modify the existing HH-60 software to accommodate the new aircraft components without impacting the legacy fleet. Qualification flight testing will be necessary to ensure the design for the new hardware and software is compatible with existing aircraft systems. Available program funding will be utilized to ensure the configuration remains common across the fleet.

Finally, additional effort will be necessary to create modification instructions separate from the OLR Mission Modification Effort. FY17 funding provides for production installs, program management oversight, and PMA. Production installs will be conducted via a contract to be awarded by the US Army Logistics Support Facility and are scheduled to begin in 4QFY16. 16 installs are currently funded. Additional funding will be required for the remaining 3 installs.

Milestone/Development Status

As part of the Operation Loss Replacement (OLR) Program, the HH-60G System Program Office (SPO) will convert 21 Army UH-60L aircraft to the current Air Force HH-60G Pave Hawk configuration. For the NRE/Prototype/Trial Install/Kit-proof, an existing Army Logistics Support Facility (LSF) Indefinite Delivery Indefinite Quantity (IDIQ) contract was awarded. The majority of these one-time contract costs are captured in the "OTHER GOVT" category. The SPO will acquire the long lead items and a follow-on LSF contract that was awarded to acquire and assemble the modification kits.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: H06000 / H-60				Modification Number / Title: 8854 / HH-60 OLR Mission Modifications			

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	44.282	5.037	41.754	-	41.754	5.368	0.410	0.410	0.410
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	12.000	-	12.000	18.000	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	44.282	5.037	53.754	-	53.754	23.368	0.410	0.410	0.410

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: H06000 / H-60					Modification Number / Title: 8854 / HH-60 OLR Mission Modifications			
Models of Systems Affected: HH-60G				Modification Type: Other				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: L2G KIT</i>													
A Kits													
Recurring													
L2G KIT:INSTALL KITS Group A (Active)	14 / 55.301	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 55.301	
L2G KIT:INSTALL KITS Group A (Guard)	5 / 17.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 17.001	
<i>Subtotal: Recurring</i>	- / 72.302	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 72.302	
B Kits													
Recurring													
L2G KIT:EQUIPMENT Group B (Active)	14 / 89.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 89.435	
L2G KIT:EQUIPMENT Group B (Guard)	5 / 38.264	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 38.264	
<i>Subtotal: Recurring</i>	- / 127.699	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 127.699	
<i>Subtotal: L2G KIT</i>	- / 200.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 200.001	
<i>Subtotal: Procurement, All Modification Items</i>	- / 200.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 200.001	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 124.770	- / 12.827	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.597	
GROUP B: TOTAL NONRECURRING	- / 111.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 111.500	
Change Orders	- / 6.805	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.805	
Data	- / 10.220	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.220	
SIM/TRAINER	3 / 11.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.500	
SUPPORT-EQUIP	- / 14.500	- / -	- / -	- / 10.944	- / -	- / 10.944	- / -	- / -	- / -	- / -	- / -	- / 15.444	
PMA - Contractor Services	- / 113.767	- / 12.926	- / 13.100	- / 11.400	- / -	- / 11.400	- / 1.400	- / -	- / -	- / -	- / -	- / 122.593	
PMA - Other Gov't Costs	- / 139.690	- / 10.410	- / 10.410	- / 10.310	- / -	- / 10.310	- / 10.260	- / -	- / -	- / -	- / -	- / 141.080	
OTHER GOVT	- / -	- / 12.600	- / 11.527	- / 13.100	- / -	- / 13.100	- / 1.000	- / 0.310	- / 0.310	- / 0.310	- / -	- / 19.157	
ICS-Labor	- / -	- / 12.483	- / -	- / -	- / -	- / -	- / 1.600	- / 0.060	- / 0.060	- / 0.060	- / -	- / 14.263	
ICS-Material	- / -	- / 10.736	- / -	- / -	- / -	- / -	- / 1.108	- / 10.040	- / 10.040	- / 10.040	- / -	- / 11.964	
<i>Subtotal: Support</i>	3 / 122.752	- / 11.982	- / 15.037	- / 15.754	- / -	- / 15.754	- / 15.368	- / 10.410	- / 10.410	- / 10.410	- / -	3 / 152.123	
Installation													
<i>Modification Item 1 of 1: L2G KIT</i>	- / -	5 / 32.300	- / -	8 / 48.000	- / -	8 / 48.000	3 / 18.000	- / -	- / -	- / -	- / -	16 / 98.300	
<i>Subtotal: Installation</i>	- / -	5 / 32.300	- / -	8 / 48.000	- / -	8 / 48.000	3 / 18.000	- / -	- / -	- / -	- / -	16 / 98.300	
Total													
Total Cost (Procurement + Support + Installation)	322.753	44.282	5.037	53.754	-	53.754	23.368	0.410	0.410	0.410	-	450.424	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8854 / HH-60 OLR Mission Modifications

Modification Item 1 of 1: L2G KIT

Manufacturer Information

Manufacturer Name: Science and Engineering Inc	Manufacturer Location: AL
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 30

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	5 / 32.300	- / 0.000	8 / 48.000	- / -	8 / 48.000	3 / 18.000	- / -	- / -	- / -	- / -	16 / 98.300
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	5 / 32.300	- / -	8 / 48.000	- / -	8 / 48.000	3 / 18.000	- / -	- / -	- / -	- / -	16 / 98.300

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	0	-	-	-	-	-	-	-	1	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	0	-	-	-	-	-	-	-	-	-	-	-	1	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	16	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: H06000 / H-60					Modification Number / Title: 8859 / DVE Sensor		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	11.700	-	11.700	13.300	12.000	9.400	2.600	-	49.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	11.700	-	11.700	13.300	12.000	9.400	2.600	-	49.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	11.700	-	11.700	13.300	12.000	9.400	2.600	-	49.000

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

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

Description:

This program, P-3A Mod 8859, DVE Sensor, is a new start.

A modification proposal (AF Form 1067, ACC 14-161) was received to install Degraded Visual Environment (DVE)/Terrain Awareness and Warning System (TAWs) on HH-60G. The DVE program will add new capability to the HH-60G, increasing mission capability and enhancing safety by providing adequate situational awareness of uncharted terrain/obstacles for safe flight operations in Degraded Visual Environments (DVE). 58% of helicopter losses and 52% of fatalities during Operation Iraqi Freedom, Operation Enduring Freedom are attributable to Control Flight into terrain, wire/object strikes, or hard landings in DVE conditions. The systems integrated and installed by this program will greatly minimize the hazards of DVE ops, preventing mishaps and fatalities. Initiated and validated by AF 1067, the DVE system shall provide aircraft navigation in day and night DVE conditions en-route and in the take-off and landing area with a real time sensor. Aircrew should be able to easily identify hazards such as terrain, antennas, wires, and poles traveling to and from the take-off and landing areas. Aircrew should be able to easily identify take-off and landing area hazards such as poles, vehicles, fence posts, wires, ditches, berms, holes, and large rocks.

Milestone/Development Status

The system will integrate with existing HH-60G optical sensor, display, navigation, and flight management systems to the maximum extent practical. The system shall be composed of line replaceable units that will be supported through the Air Force supply system and replaceable at the organizational level. This effort will eventually modify all 118 (97 current HH-60Gs and 21 aircraft in the OLR Mission Modifications Program) aircraft with DVE sensors. FY17 efforts will initiate an integration phase of this program, adapting non-developmental sensor systems such as Millimeter Waver Radar (MMW) to the HH-60G platform. The current program is adequate to procure and install DVE systems on 70 aircraft; additional funds will be needed to equip the entire 118-aircraft fleet. FY17 funds will procure a limited number of kits to facilitate trial installation, flight test, and kit proof. Subsequent years funding will procure and install production kits.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	11.700	-	11.700	9.130	7.830	5.105	1.835
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	2.220	2.220	2.160	0.395
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	1.950	1.950	2.135	0.370
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	11.700	-	11.700	13.300	12.000	9.400	2.600

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: H06000 / H-60					Modification Number / Title: 8859 / DVE Sensor			
Models of Systems Affected: HH-60G				Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: DVE</i>													
A Kits													
Recurring													
DVE:INSTALL KITS Group A (Active)	- / -	- / -	- / -	2 / 0.190	- / -	2 / 0.190	17 / 0.680	16 / 0.640	3 / 0.120	- / -	- / -	38 / 1.630	
DVE:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.240	6 / 0.240	5 / 0.200	- / -	- / -	17 / 0.680	
DVE:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.200	5 / 0.200	5 / 0.200	- / -	- / -	15 / 0.600	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.190	- / -	- / 0.190	- / 1.120	- / 1.080	- / 0.520	- / -	- / -	- / 2.910	
B Kits													
Recurring													
DVE:EQUIPMENT Group B (Active)	- / -	- / -	- / -	2 / 0.800	- / -	2 / 0.800	17 / 5.710	16 / 5.210	3 / 0.930	- / -	- / -	38 / 12.650	
DVE:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.980	6 / 1.980	5 / 1.750	- / -	- / -	17 / 5.710	
DVE:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.750	5 / 1.750	5 / 1.750	- / -	- / -	15 / 5.250	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.800	- / -	- / 0.800	- / 9.440	- / 8.940	- / 4.430	- / -	- / -	- / 23.610	
<i>Subtotal: DVE</i>	- / -	- / -	- / -	- / 0.990	- / -	- / 0.990	- / 10.560	- / 10.020	- / 4.950	- / -	- / -	- / 26.520	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 0.990	- / -	- / 0.990	- / 10.560	- / 10.020	- / 4.950	- / -	- / -	- / 26.520	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / 3.000	- / -	- / 3.000	- / -	- / -	- / -	- / -	- / -	- / 3.000	
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 4.510	- / -	- / 4.510	- / -	- / -	- / -	- / -	- / -	- / 4.510	
SUPPORT-EQUIP	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.900	- / -	- / -	- / 1.900	
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.700	- / -	- / -	- / -	3 / 0.700	
OTHER GOVT	- / -	- / -	- / -	- / 10.020	- / -	- / 10.020	- / 10.020	- / 10.100	- / 10.100	- / 10.100	- / -	- / 10.340	
Data	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.030	- / -	- / 10.030	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 2.850	- / -	- / 2.850	- / 2.285	- / 0.020	- / 0.070	- / -	- / -	- / 5.225	
PMA - Contractor Services	- / -	- / -	- / -	- / 0.330	- / -	- / 0.330	- / 0.435	- / 1.160	- / 1.180	- / 1.200	- / -	- / 4.305	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 10.710	- / -	- / 10.710	- / 2.740	3 / 1.980	- / 3.250	- / 1.330	- / -	3 / 20.010	
Installation													
<i>Modification Item 1 of 1: DVE</i>	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	- / -	34 / 1.200	34 / 1.270	- / -	70 / 2.470	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	- / -	34 / 1.200	34 / 1.270	- / -	70 / 2.470	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	11.700	-	11.700	13.300	12.000	9.400	2.600	-	49.000	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8859 / DVE Sensor

Modification Item 1 of 1: DVE

Manufacturer Information

Manufacturer Name: Manufacturer TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017	Jan 2018	Jan 2019	Jan 2020	
Delivery Dates			May 2017	May 2018	May 2019	May 2020	

Installation Information

Method of Implementation: Depot Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	- / -	- / -	- / -	- / -	2 / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.990	- / -	- / -	28 / 0.990
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.210	21 / 0.775	- / -	27 / 0.985
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.495	- / -	13 / 0.495
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	- / -	34 / 1.200	34 / 1.270	- / -	70 / 2.470

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	8	8	9	9	9	9	8	8	-	70
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	8	8	9	9	9	9	8	8	-	70

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305220F	Other Related Program Elements: 0305220F
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Line Item MDAP/MAIS Code: 252	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	394.023	21.354	50.022	32.045	-	32.045	55.305	81.078	40.029	155.662	684.201	1,513.719
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	394.023	21.354	50.022	32.045	-	32.045	55.305	81.078	40.029	155.662	684.201	1,513.719
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	394.023	21.354	50.022	32.045	-	32.045	55.305	81.078	40.029	155.662	684.201	1,513.719

(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 RQ-4 System provides high altitude, deep look, long-endurance intelligence, surveillance, and reconnaissance (ISR) capability that complements space and other airborne collectors during peacetime, crisis, and war-fighting scenarios. The aircraft is an autonomous, high altitude, long-endurance, Remotely Piloted Aircraft (RPA). Currently, the active inventory consists of four (4) Block 20s, eighteen (18) Block 30s, and eleven (11) Block 40s. Three (3) additional Block 30s are currently in production with scheduled deliveries in FY17. The ground segment includes the Mission Control Element (MCE) and the Launch Recovery Element (LRE). There are a total of ten (10) active ground segments in the existing RQ-4 inventory. The RQ-4 program will incorporate applicable synergies with other platforms, including the U.S. Navy Triton, and other RPA weapon systems.

The designed service life of the Block 30 RPAs is approximately 25 years with an average service life remaining of 16 years through 2032. The designed service life of the Block 40 RPAs is approximately 25 years with an average service life remaining of 18 years through 2034. The designed service life of the ground segments is approximately 32 years with an average service life remaining of 18 years through 2034.

The RQ-4B is the successor to the RQ-4A, and is designed to employ 3,000 pounds of payload and enable multi-intelligence (multi-INT) collecting. The RQ-4B has three configurations: Block 20, Block 30, and Block 40. The Block 20 employs upgraded Synthetic Aperture Radar (SAR) and Electro-Optical/Infrared (EO/IR) sensors - Enhanced Integrated Sensor Suite (EISS) - in an imagery intelligence only configuration. One SAR capable Block 20 remains in the fleet. Additionally, 4 Block 20's have been converted to Battlefield Airborne Communications Node (BACN) of which three (3) remain active. These aircraft are not SAR capable. The remaining Block 20 aircraft support test projects for all RQ-4 Blocks. The Block 30 employs the same EISS sensors as the Block 20, and integrates a wide spectrum signals intelligence (SIGINT) sensor, the Airborne Signals Intelligence Payload (ASIP). EISS and ASIP are used simultaneously to create a multi-INT platform. The Block 40 integrates the Multi-Platform Radar Technology Insertion Program (MP-RTIP) radar that has GMTI capability. The support segment includes aerospace ground equipment, tech orders, spares, support equipment, and training to enable operation of the RQ-4 System. To protect production schedules from Diminishing Manufacturing Sources (DMS) and material shortages issues, the program will perform schedule protection buys when appropriate. Funding may be used to alleviate DMS issues for which there are not sufficient Government spares and/or the ability to repair organically or commercially is not viable.

The RQ-4 system will be continually modified to maintain pace with evolving threats and increasing capabilities included in modernization efforts. These planned modifications include, but are not limited to, aircraft, ground station/communications and other retrofits to incorporate new capabilities such as next-generation sensing, enhanced communications capabilities, EISS sensor interoperability enhancements and upgrades, ASIP sensor interoperability enhancements and upgrades, SAR complex imagery, Airborne Data Computer, JPEG 2000, Joint Mission Planning System (JMPS), enhanced weather capabilities, engine performance, ice protection system, INMARSAT/COMSEC, Mode 5/Automatic Dependent Surveillance-Broadcast (ADS-B), reliability, maintainability and availability efforts, next generation communications, sensor integration, as well as technology insertion activities in support of Better Buying Power initiatives.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305220F	Other Related Program Elements: 0305220F
Line Item MDAP/MAIS Code: 252	Item MDAP/MAIS Code(s): N/A	

FY17 funds will support modification efforts to include aircraft mods, enhanced weather capabilities, Mode 5/ADS-B, sensor enhancements, Airborne Database Computer (ADC) upgrades, communication and interoperability enhancements, SAR complex imagery, reliability, maintainability and availability efforts, low cost modifications, and other modification efforts to upgrade the Global Hawk fleet.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
HAWK00 / RQ-4 MODS

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0305220F **Other Related Program Elements:** 0305220F

Line Item MDAP/MAIS Code: 252 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	470001 / GH Aircraft Mods (Capability Improvement)			- / 378.500	- / 8.906	- / 4.715	- / 1.084	- / -	- / 1.084
P-40a***	470003 / GH Ground Station Mods (Capability Improvement)			- / 15.523	- / -	- / -	- / -	- / -	- / -
P-40a***	470009 / ASIP Increment I (Capability Improvement)			- / -	- / -	- / 30.501	- / -	- / -	- / -
P-40a***	470010 / SAR Complex Imagery (Capability Improvement)			- / -	- / -	- / 2.133	- / 2.418	- / -	- / 2.418
P-40a***	470011 / ASIP Install/Calibration (Capability Improvement)			- / -	- / 12.448	- / -	- / -	- / -	- / -
P-40a***	470012 / MODE 5/ADS-B (Capability Improvement)			- / -	- / -	- / -	- / 1.205	- / -	- / 1.205
P-40a***	470014 / R&M Enhancements (Reliability & Maintainability)			- / -	- / -	- / 4.841	- / 1.634	- / -	- / 1.634
P-40a***	470015 / Ice Protection System (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470016 / ADC/JPEG 2000 (Capability Improvement)			- / -	- / -	- / -	- / 1.835	- / -	- / 1.835
P-40a***	470018 / CSMP (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470020 / EERU Enhancements (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470021 / ASIP Increment II (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / -	- / -	- / 2.000	- / 2.000	- / -	- / 2.000
P-3a	470008 / Enhanced Weather Capability (Capability Improvement)			- / -	- / -	- / 5.832	- / 7.599	- / -	- / 7.599
P-3a	470013 / Sensor Enhancements (Capability Improvement)			- / -	- / -	- / -	- / 11.270	- / -	- / 11.270
P-3a	470019 / Communication Interoperability/Enhancements (Capability Improvement)			- / -	- / -	- / -	- / 3.000	- / -	- / 3.000
P-40	Total Gross/Weapon System Cost			- / 394.023	- / 21.354	- / 50.022	- / 32.045	- / -	- / 32.045

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	470001 / GH Aircraft Mods (Capability Improvement)			- / 10.981	- / 30.906	- / 14.379	- / 7.202	- / 7.682	- / 464.355
P-40a***	470003 / GH Ground Station Mods (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 15.523
P-40a***	470009 / ASIP Increment I (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 30.501
P-40a***	470010 / SAR Complex Imagery (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 4.551
P-40a***	470011 / ASIP Install/Calibration (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 12.448
P-40a***	470012 / MODE 5/ADS-B (Capability Improvement)			- / 1.338	- / 2.804	- / -	- / -	- / -	- / 5.347
P-40a***	470014 / R&M Enhancements (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 6.475
P-40a***	470015 / Ice Protection System (Capability Improvement)			- / -	- / 14.338	- / 17.724	- / 18.258	- / 31.920	- / 82.240
P-40a***	470016 / ADC/JPEG 2000 (Capability Improvement)			- / 2.070	- / 2.134	- / 0.192	- / -	- / -	- / 6.231
P-40a***	470018 / CSMP (Capability Improvement)			- / -	- / -	- / -	- / 116.202	- / 540.899	- / 657.101
P-40a***	470020 / EERU Enhancements (Capability Improvement)			- / 3.820	- / 4.200	- / 4.500	- / 12.000	- / 35.500	- / 60.020
P-40a***	470021 / ASIP Increment II (Capability Improvement)			- / -	- / -	- / -	- / -	- / 52.000	- / 52.000
P-40a***	99999X / Low Cost Modifications (Capability Improvement)			- / 2.000	- / 2.000	- / 2.000	- / 2.000	- / 16.200	- / 28.200
P-3a	470008 / Enhanced Weather Capability (Capability Improvement)			- / 3.350	- / 0.331	- / 0.056	- / -	- / -	- / 17.168

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
HAWK00 / RQ-4 MODS

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0305220F **Other Related Program Elements:** 0305220F

Line Item MDAP/MAIS Code: 252 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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	470013 / Sensor Enhancements (Capability Improvement)			- / 31.746	- / 24.365	- / 1.178	- / -	- / -	- / 68.559
P-3a	470019 / Communication Interoperability/Enhancements (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 3.000
P-40	Total Gross/Weapon System Cost			- / 55.305	- / 81.078	- / 40.029	- / 155.662	- / 684.201	- / 1,513.719

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS				Modification Number / Title: 470008 / Enhanced Weather Capability				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	5.832	7.599	-	7.599	3.350	0.331	0.056	-	-	17.168
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	5.832	7.599	-	7.599	3.350	0.331	0.056	-	-	17.168
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	5.832	7.599	-	7.599	3.350	0.331	0.056	-	-	17.168
<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>)	-	-	-	1.249	-	1.249	1.102	-	-	-	-	2.351
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The RQ-4 program is developing and testing several capability enhancements to provide improved situational awareness and performance in severe weather. The Enhance Weather Capability program will increase mission capability by fielding the retrofit of onboard Weather Radar, Lightning Diverter Strips, Increased Engine performance, and minor communications enhancements concurrently developed with Weather Radar due to hardware & software development and fielding synergies.

This retrofit includes upgrade kits and installs on the following:

Weather Radar: thirty (30) aircraft; twenty-one (21) Block 30 and nine (9) Block 40, fourteen (14) ground stations; twelve (12) Block 30 and two (2) Block 40.

Minor communications enhancements: thirty (30) aircraft; twenty-one (21) Block 30 and nine (9) Block 40, fourteen (14) ground stations; twelve (12) Block 30 and two (2) Block 40.

Engine ITT: thirty-five (35) aircraft; three (3) Block 20, twenty-one (21) Block 30 and eleven (11) Block 40.

The sum total is one hundred twenty-three (123) upgrades.

Weather Radar, minor communications, & Engine ITT kits will be procured within this Mod line. The Engine ITT piece has a uniquely shorter lead time and can be accomplished quicker than the other retrofits. Three kits procured for Engine ITT in FY17 are also estimated to install in FY17, which is why there are more installs in FY17 (and other FYs) than A&B kits from the prior year and current year. This shorter lead time for Engine ITT kits impacts the phasing of kit buys and installs throughout the FYDP but the total quantity of kits and installs will be equal once the effort is complete.

Tech Specification placed on contract - 12 Mar 2015

PDR - 21-22 Jul 2015

CDR - 15-16 Sep 2015

Flight Test for all blocks planned May 2016 - Oct 2016

Design requirements and design configuration have been established and agreed to through PDR and CDR. Software coding is well underway. Hardware for Hot Bench SW testing has been received and has completed install and check out. Initial Software PAR testing has begun and Weather Radar data has successfully been transmitted over some links. The Development schedule has experienced some pressures due to late finalization of design and the resolution of several technical challenges. Schedule recovery is being worked and Block 30 (the lead block) is expected to complete DT before the end of FY16.

Milestone/Development Status

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS	Modification Number / Title: 470008 / Enhanced Weather Capability
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The Enhanced Weather Capability program is currently in the development and testing phase. The T&E activity for the primary effort is the design and qualification of an onboard Weather Radar. This T&E activity will be completed with Block 30 planned to be the first qualified Block. The objective is to begin retrofit activities immediately after completion of DT/OT for Block 30s in order to minimize any delay to the field.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS					Modification Number / Title: 470008 / Enhanced Weather Capability			
Models of Systems Affected: RQ-4			Modification Type: Capability Improvement					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 2: Group A Install Kits</i>													
A Kits													
Recurring													
Group A Install Kits:INSTALL KITS Group A (Active)	- / -	- / -	56 / 0.583	43 / 0.691	- / -	43 / 0.691	16 / 0.280	5 / 0.013	3 / 0.002	- / -	- / -	123 / 1.569	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.583	- / 0.691	- / -	- / 0.691	- / 0.280	- / 0.013	- / 0.002	- / -	- / -	- / 1.569	
<i>Subtotal: Group A Install Kits</i>	- / -	- / -	- / 0.583	- / 0.691	- / -	- / 0.691	- / 0.280	- / 0.013	- / 0.002	- / -	- / -	- / 1.569	
<i>Modification Item 2 of 2: Grp B Equipment</i>													
B Kits													
Recurring													
Grp B Equipment:EQUIPMENT Group B (Active)	- / -	- / -	56 / 5.249	43 / 6.216	- / -	43 / 6.216	16 / 2.516	5 / 0.119	3 / 0.022	- / -	- / -	123 / 14.122	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 5.249	- / 6.216	- / -	- / 6.216	- / 2.516	- / 0.119	- / 0.022	- / -	- / -	- / 14.122	
<i>Subtotal: Grp B Equipment</i>	- / -	- / -	- / 5.249	- / 6.216	- / -	- / 6.216	- / 2.516	- / 0.119	- / 0.022	- / -	- / -	- / 14.122	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 5.832	- / 6.907	- / -	- / 6.907	- / 2.796	- / 0.132	- / 0.024	- / -	- / -	- / 15.691	
Installation													
<i>Modification Item 2 of 2: Grp B Equipment</i>													
	- / -	- / -	- / -	59 / 0.692	- / -	59 / 0.692	44 / 0.554	16 / 0.199	4 / 0.032	- / -	- / -	123 / 1.477	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	59 / 0.692	- / -	59 / 0.692	44 / 0.554	16 / 0.199	4 / 0.032	- / -	- / -	123 / 1.477	
Total													
Total Cost (Procurement + Support + Installation)	-	-	5.832	7.599	-	7.599	3.350	0.331	0.056	-	-	17.168	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS	Modification Number / Title: 470008 / Enhanced Weather Capability
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Modification Item 1 of 2: Group A Install Kits

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, California
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Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 6
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Aug 2016	Aug 2017	Aug 2018	Aug 2019	Aug 2020	
Delivery Dates		Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021	

Installation Information

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

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS	Modification Number / Title: 470008 / Enhanced Weather Capability

Modification Item 2 of 2: Grp B Equipment

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, California
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Aug 2016	Aug 2017	Aug 2018	Aug 2019	Aug 2020	
Delivery Dates		Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021	

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	56 / 0.657	- / -	56 / 0.657	- / -	- / -	- / -	- / -	- / -	56 / 0.657
FY 2017	- / -	- / -	- / -	3 / 0.035	- / -	3 / 0.035	40 / 0.504	- / -	- / -	- / -	- / -	43 / 0.539
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.050	12 / 0.149	- / -	- / -	- / -	16 / 0.199
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.050	1 / 0.008	- / -	- / -	5 / 0.058
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.024	- / -	- / -	3 / 0.024
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	59 / 0.692	- / -	59 / 0.692	44 / 0.554	16 / 0.199	4 / 0.032	- / -	- / -	123 / 1.477

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	-	-	-	-	-	-	-	15	15	15	14	11	11	11	11	4	4	4	4	-	-	-	4	-	-	-	-	-	-	123
Out	0	-	-	-	-	-	-	-	-	15	15	15	14	11	11	11	11	4	4	4	4	-	-	-	4	-	-	-	-	-	-	123

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS	Modification Number / Title: 470013 / Sensor Enhancements
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	11.270	-	11.270	31.746	24.365	1.178	-	-	68.559
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	11.270	-	11.270	31.746	24.365	1.178	-	-	68.559
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	11.270	-	11.270	31.746	24.365	1.178	-	-	68.559
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	3.994	3.138	-	-	-	7.132
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This modification program includes: the purchase and installation of eighteen (18) ISR Payload Adapters (IPAs), 7-10 band sensor upgrades, V-1 to V-2 Block 30 structural modifications, sensor image quality improvements, and interoperability/reliability/maintainability enhancements. V-1 to V-2 structural modifications and 7-10 band sensor upgrades are captured under Group B non-recurring.

Milestone/Development Status

The Sensor Enhancement program is currently in the development phase. MS-B was approved in Sep 2015. The objective is to retrofit all Block 30s to carry enhanced sensors, thus maximizing capability and flexibility of Block 30 fleet to support ISR operations.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS					Modification Number / Title: 470013 / Sensor Enhancements			
Models of Systems Affected: RQ-4				Modification Type: Capability Improvement				Related RDT&E PEs: 0305220F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0305220F	- / -	- / -	- / -	- / 14.867	- / -	- / 14.867	- / 12.710	- / -	- / -	- / -	- / -	- / 17.577	
Procurement													
Modification Item 1 of 2: Grp A Install Kits (2)													
A Kits													
Recurring													
Grp A Install Kits:INSTALL KITS Group A (Active)	- / -	- / -	- / -	6 / 1.123	- / -	6 / 1.123	6 / 1.162	6 / 1.196	- / -	- / -	- / -	18 / 3.481	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 1.123	- / -	- / 1.123	- / 1.162	- / 1.196	- / -	- / -	- / -	- / 3.481	
<i>Subtotal: Grp A Install Kits (2)</i>	- / -	- / -	- / -	- / 1.123	- / -	- / 1.123	- / 1.162	- / 1.196	- / -	- / -	- / -	- / 3.481	
Modification Item 2 of 2: Grp B Equipment (3)													
B Kits													
Recurring													
Grp B Equipment:EQUIPMENT Group B (Active)	- / -	- / -	- / -	6 / 10.147	- / -	6 / 10.147	6 / 10.457	6 / 10.766	- / -	- / -	- / -	18 / 31.370	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 10.147	- / -	- / 10.147	- / 10.457	- / 10.766	- / -	- / -	- / -	- / 31.370	
<i>Subtotal: Grp B Equipment (3)</i>	- / -	- / -	- / -	- / 10.147	- / -	- / 10.147	- / 10.457	- / 10.766	- / -	- / -	- / -	- / 31.370	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 11.270	- / -	- / 11.270	- / 11.619	- / 11.962	- / -	- / -	- / -	- / 34.851	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.026	- / 11.260	- / -	- / -	- / -	- / 30.286	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.026	- / 11.260	- / -	- / -	- / -	- / 30.286	
Installation													
Modification Item 2 of 2: Grp B Equipment (3)													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.101	6 / 1.143	6 / 1.178	- / -	- / -	18 / 3.422	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.101	6 / 1.143	6 / 1.178	- / -	- / -	18 / 3.422	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	11.270	-	11.270	31.746	24.365	1.178	-	-	68.559	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS	Modification Number / Title: 470013 / Sensor Enhancements
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Modification Item 1 of 2: Grp A Install Kits (2)

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, California
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Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 10
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019		
Delivery Dates			Jan 2018	Jan 2019	Jan 2020		

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS	Modification Number / Title: 470013 / Sensor Enhancements

Modification Item 2 of 2: Grp B Equipment (3)

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, California
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 10

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019		
Delivery Dates			Jan 2018	Jan 2019	Jan 2020		

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.101	- / -	- / -	- / -	- / -	6 / 1.101
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.143	- / -	- / -	- / -	6 / 1.143
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.178	- / -	- / -	6 / 1.178
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.101	6 / 1.143	6 / 1.178	- / -	- / -	18 / 3.422

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	-	2	2	2	-	-	-	-	-	18
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	-	2	2	2	-	-	-	-	-	18

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS				Modification Number / Title: 470019 / Communication Interoperability/ Enhancements				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	3.000	-	3.000	-	-	-	-	-	3.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	3.000	-	3.000	-	-	-	-	-	3.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	3.000	-	3.000	-	-	-	-	-	3.000
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 470019, Communication Interoperability/Enhancements, is a new start.

In order to support multiple worldwide missions for remote split operations (RSO), a long-term SATCOM reach back capability is required. RSO dictate the need for a secure SATCOM C3 long-haul transmission capability enabling the physical separation of the SATCOM wideband antenna from the Mission Control Element (MCE). This solution must support use of all Ku and ETP antennae authorized for use with Global Hawk. The expected result of this capability allows the transmission of C3 over existing long haul circuitry using ATM and Ethernet, enabling the needed geographical separation required to conduct worldwide RSO.

In order to accommodate the communication interoperability/enhancements long term technical solution for reach-back monitoring and address the diminishing manufacturing source for the AP4000, there's a need for a reach-back capability upgrade pair that replaces both the AP4000 and Broadmore 500.

This project will replace the AP4000 and Broadmore 500s in the MCEs and Launch Recovery Elements (LRE) with a pair of reach-back capability upgrades. This will address the short term diminishing manufacturing source for the AP4000s and also enable a long term technical solution for reach-back monitoring.

Milestone/Development Status

The Global Hawk Program office has an existing relationship with SPAWAR, which will allow for the fastest and least expensive method to purchase and install the equipment. Funding will also be used to update documentation through the Contractor.

This is a form, fit, function replacement of the AP4000 and Broadmore 500s. SPAWAR will purchase all equipment, parts, and materials required for thirty-four (34) upgrades.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS					Modification Number / Title: 470019 / Communication Interoperability/ Enhancements			
Models of Systems Affected: RQ-4				Modification Type: Capability Improvement				Related RDT&E PEs: 0305220F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0305220F	- / -	- / -	- / -	- / 15.200	- / -	- / 15.200	- / -	- / -	- / -	- / -	- / -	- / 15.200	
Procurement													
Modification Item 1 of 2: Group B Equipment (4)													
B Kits													
Recurring													
Group B Equipment:EQUIPMENT Group B (Active)	- / -	- / -	- / -	34 / 1.750	- / -	34 / 1.750	- / -	- / -	- / -	- / -	- / -	34 / 1.750	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 1.750	- / -	- / 1.750	- / -	- / -	- / -	- / -	- / -	- / 1.750	
<i>Subtotal: Group B Equipment (4)</i>	- / -	- / -	- / -	- / 1.750	- / -	- / 1.750	- / -	- / -	- / -	- / -	- / -	- / 1.750	
Modification Item 2 of 2: Grp A Install Kits (6)													
A Kits													
Recurring													
Grp A Install Kits:INSTALL KITS Group A (Active)	- / -	- / -	- / -	34 / 0.450	- / -	34 / 0.450	- / -	- / -	- / -	- / -	- / -	34 / 0.450	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.450	- / -	- / 0.450	- / -	- / -	- / -	- / -	- / -	- / 0.450	
<i>Subtotal: Grp A Install Kits (6)</i>	- / -	- / -	- / -	- / 0.450	- / -	- / 0.450	- / -	- / -	- / -	- / -	- / -	- / 0.450	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 2.200	- / -	- / 2.200	- / -	- / -	- / -	- / -	- / -	- / 2.200	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING													
Change Orders	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / 0.500	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / 0.500	
Installation													
Modification Item 1 of 2: Group B Equipment (4)													
Subtotal: Installation													
	- / -	- / -	- / -	34 / 0.300	- / -	34 / 0.300	- / -	- / -	- / -	- / -	- / -	34 / 0.300	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	34 / 0.300	- / -	34 / 0.300	- / -	- / -	- / -	- / -	- / -	34 / 0.300	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	3.000	-	3.000	-	-	-	-	-	3.000	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS	Modification Number / Title: 470019 / Communication Interoperability/ Enhancements

Modification Item 1 of 2: Group B Equipment (4)

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, California
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 2

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Dec 2016				
Delivery Dates			Feb 2017				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	34 / 0.300	- / -	34 / 0.300	- / -	- / -	- / -	- / -	- / -	34 / 0.300
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	34 / 0.300	- / -	34 / 0.300	- / -	- / -	- / -	- / -	- / -	34 / 0.300

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	0	-	-	-	-	-	-	-	-	-	6	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34
Out	0	-	-	-	-	-	-	-	-	-	6	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS	Modification Number / Title: 470019 / Communication Interoperability/ Enhancements

Modification Item 2 of 2: Grp A Install Kits (6)

Manufacturer Information

Manufacturer Name: Northrop Grumman				Manufacturer Location: Palmdale, California			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Dec 2016				
Delivery Dates			Feb 2017				

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 0
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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207224F	Other Related Program Elements: 0207224F, 0401134F
---	---	--

Line Item MDAP/MAIS Code: 257	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	84.310	43.202	27.350	30.767	13.550	44.317	42.400	35.734	4.173	4.249	402.000	687.735
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	84.310	43.202	27.350	30.767	13.550	44.317	42.400	35.734	4.173	4.249	402.000	687.735
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	84.310	43.202	27.350	30.767	13.550	44.317	42.400	35.734	4.173	4.249	402.000	687.735

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

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

Description:

HC/MC-130 Recapitalization will replace and augment the aging USAF fleets of combat rescue HC-130P/N, special operations MC-130E/P/H and AC-130H/U/W aircraft which are experiencing airworthiness, maintainability and operational limitations. This program provides a common baseline configuration aircraft.

The primary mission of the HC/MC-130J aircraft is to provide aerial refueling support to the respective component commanders. In addition to the specialized air refueling support to mission-unique receiver aircraft, the aircraft can provide a specialized mobility capability to position, supply, re-supply and recover specialized ground tactical units. As of 1 Jan 2016, 52 HC/MC/AC variants have been fielded: 5 AC-130Js, 30 MC-130Js, 18 HC-130Js. The designed service life is 35 years and the average service life remaining is 32.2 years.

The modifications budgeted in FY17 will improve the reliability, maintainability, safety, mission performance, reduce logistics costs, and implement fleet upgrades and enhancements to meet emerging requirements for the HC/MC-130J aircraft and associated training systems.

Funding for this exhibit is contained in PE 0207224F (HC-130J) and PE 0207230F (MC-130J).

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

FY15 funding totals include \$41.3M for Overseas Contingency Operation and FY16 funding totals include \$5.7M for Overseas Contingency Operations.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
HCMC00 / HC/MC-130 Modifications

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207224F **Other Related Program Elements:** 0207224F, 0401134F

Line Item MDAP/MAIS Code: 257 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	5222 / HC/MC-130J Block 8.1 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8629 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) (Capability Improvement)			- / 34.000	- / -	- / -	- / -	- / -	- / -
P-40a***	8634 / HC-130J Common Configuration (Capability Improvement)			- / 25.252	- / -	- / 10.508	- / 3.712	- / -	- / 3.712
P-40a***	8635 / HC-130J Personnel Locator System (Capability Improvement)			- / 4.700	- / 6.100	- / -	- / -	- / 4.250	- / 4.250
P-40a***	8637 / HC-130J Video Data Link (Capability Improvement)			- / -	- / 22.700	- / -	- / -	- / -	- / -
P-40a***	8638 / HC-130J Variable Speed Drogue (Capability Improvement)			- / -	- / -	- / 4.030	- / -	- / -	- / -
P-40a***	8639 / HC-130J Wireless Intercom (Capability Improvement)			- / -	- / -	- / 1.660	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Safety)			- / 6.245	- / 1.902	- / 1.960	- / 1.987	- / -	- / 1.987
P-3a	8632 / MC-130J Increment 2 (Capability Improvement)			- / 14.113	- / -	- / 9.192	- / 8.257	- / -	- / 8.257
P-3a	8636 / HC-130J Situational Awareness (Capability Improvement)			- / -	- / 12.500	- / -	- / 16.811	- / -	- / 16.811
P-3a	8640 / HC-130J Countermeasures Dispenser System Rapid Dispense (Capability Improvement)			- / -	- / -	- / -	- / -	- / 9.300	- / 9.300
P-40	Total Gross/Weapon System Cost			- / 84.310	- / 43.202	- / 27.350	- / 30.767	- / 13.550	- / 44.317

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	5222 / HC/MC-130J Block 8.1 (Capability Improvement)			- / -	- / 31.919	- / 3.253	- / 3.321	- / 402.000	- / 440.493
P-40a***	8629 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 34.000
P-40a***	8634 / HC-130J Common Configuration (Capability Improvement)			- / 6.479	- / 2.180	- / 0.468	- / 0.500	- / -	- / 49.099
P-40a***	8635 / HC-130J Personnel Locator System (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 15.050
P-40a***	8637 / HC-130J Video Data Link (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 22.700
P-40a***	8638 / HC-130J Variable Speed Drogue (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 4.030
P-40a***	8639 / HC-130J Wireless Intercom (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 1.660
P-40a***	99999X / Low Cost Modifications (Safety)			- / 1.993	- / 1.635	- / 0.452	- / 0.428	- / -	- / 16.602
P-3a	8632 / MC-130J Increment 2 (Capability Improvement)			- / 6.307	- / -	- / -	- / -	- / -	- / 37.869
P-3a	8636 / HC-130J Situational Awareness (Capability Improvement)			- / 27.621	- / -	- / -	- / -	- / -	- / 56.932
P-3a	8640 / HC-130J Countermeasures Dispenser System Rapid Dispense (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 9.300
P-40	Total Gross/Weapon System Cost			- / 42.400	- / 35.734	- / 4.173	- / 4.249	- / 402.000	- / 687.735

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

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

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

Justification:

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207224F	Other Related Program Elements: 0207224F, 0401134F
Line Item MDAP/MAIS Code: 257	Item MDAP/MAIS Code(s): N/A	
Where applicable, justification for individual modifications is provided in the P-3A exhibits.		

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Exhibit P-3a, Individual Modification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8632 / MC-130J Increment 2
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	14.113	-	9.192	8.257	-	8.257	6.307	-	-	-	-	37.869
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	14.113	-	9.192	8.257	-	8.257	6.307	-	-	-	-	37.869
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	14.113	-	9.192	8.257	-	8.257	6.307	-	-	-	-	37.869
<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 MC-130J Increment 2 modification brings ten MC-130J Increment 1 aircraft up to the baseline Increment 2 configuration. Current funding allows for nine of the ten aircraft modifications. Increment 2 includes but is not limited to adding LAIRCM Group A provisions, crashworthy loadmaster seats, and increased electrical power. It also modifies MC-130J training systems from Increment 1 to Increment 2. This ensures total fleet commonality and avoids many DMS issues. Related is the HC-130J Common Configuration Mod (Mod 8634) which brings 2 HC-130Js from Increment 0 to Increment 2. Note: Milestone dates are for kit delivery and installation schedule dates are for installation on aircraft.

Milestone/Development Status

Increment 2 development is complete. The first Increment 2 aircraft produced was delivered off of the production line in the first quarter of FY13.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8632 / MC-130J Increment 2			
Models of Systems Affected: MC-130J				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Inc 1-2</i>													
B Kits													
Recurring													
Inc 1-2:EQUIPMENT Group B (Active)	2 / 2.802	- / -	4 / 5.562	3 / 4.200	- / -	3 / 4.200	- / -	- / -	- / -	- / -	- / -	9 / 12.564	
<i>Subtotal: Recurring</i>	- / 2.802	- / -	- / 5.562	- / 4.200	- / -	- / 4.200	- / -	- / -	- / -	- / -	- / -	- / 12.564	
<i>Subtotal: Inc 1-2</i>	- / 2.802	- / -	- / 5.562	- / 4.200	- / -	- / 4.200	- / -	- / -	- / -	- / -	- / -	- / 12.564	
<i>Subtotal: Procurement, All Modification Items</i>	- / 2.802	- / -	- / 5.562	- / 4.200	- / -	- / 4.200	- / -	- / -	- / -	- / -	- / -	- / 12.564	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 4.711	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.711	
SIM/TRAINER	1 / 0.528	- / -	- / 0.230	1 / 0.657	- / -	1 / 0.657	- / -	- / -	- / -	- / -	- / -	2 / 1.415	
<i>Subtotal: Support</i>	1 / 5.239	- / -	- / 0.230	1 / 0.657	- / -	1 / 0.657	- / -	- / -	- / -	- / -	- / -	2 / 6.126	
Installation													
<i>Modification Item 1 of 1: Inc 1-2</i>	1 / 6.072	- / -	2 / 3.400	2 / 3.400	- / -	2 / 3.400	4 / 6.307	- / -	- / -	- / -	- / -	9 / 19.179	
<i>Subtotal: Installation</i>	1 / 6.072	- / -	2 / 3.400	2 / 3.400	- / -	2 / 3.400	4 / 6.307	- / -	- / -	- / -	- / -	9 / 19.179	
Total													
Total Cost (Procurement + Support + Installation)	14.113	-	9.192	8.257	-	8.257	6.307	-	-	-	-	37.869	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8632 / MC-130J Increment 2

Modification Item 1 of 1: Inc 1-2

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Marietta GA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017				
Delivery Dates		Jan 2017	Jan 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 6.072	- / -	1 / 1.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 7.772
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	1 / 1.700	2 / 3.400	- / -	2 / 3.400	1 / 1.589	- / -	- / -	- / -	- / -	4 / 6.689
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	3 / 4.718	- / -	- / -	- / -	- / -	3 / 4.718
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 6.072	- / -	2 / 3.400	2 / 3.400	- / -	2 / 3.400	4 / 6.307	- / -	- / -	- / -	- / -	9 / 19.179

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	0	-	-	-	-	-	1	-	-	-	-	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	1	-	-	-	-	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8636 / HC-130J Situational Awareness
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	12.500	-	16.811	-	16.811	27.621	-	-	-	-	56.932
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	12.500	-	16.811	-	16.811	27.621	-	-	-	-	56.932
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	12.500	-	16.811	-	16.811	27.621	-	-	-	-	56.932

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

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

Description:

Equips active duty Personnel Recovery HC-130J's with five situational awareness capabilities (Situational Awareness Datalink (SADL), Blue Force Tracker (BFT), PRC-117 High Performance Waveform (HPW), Air Force Tactical Receiver System-Ruggedized (AFTRS-R) and Joint Precision Aerial Delivery System (JPADS)) that are inherent on legacy aircraft, and Link-16 and allows these capabilities to be integrated on the aircraft software integration suite, needed in the area of responsibility, and supported by urgent operational need.

FY15 Group A Kits provided as GFE from T-1 modifications.

Milestone/Development Status

N/A

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8636 / HC-130J Situational Awareness			
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Situational Awareness</i>													
A Kits													
Recurring													
Situational Awareness:INSTALL KITS Group A (Active)													
	- / -	16 / 0.001	- / -	3 / 1.493	- / -	3 / 1.493	8 / 4.100	- / -	- / -	- / -	- / -	27 / 15.594	
<i>Subtotal: Recurring</i>													
	- / -	- / 0.001	- / -	- / 1.493	- / -	- / 1.493	- / 4.100	- / -	- / -	- / -	- / -	- / 15.594	
B Kits													
Recurring													
Situational Awareness:EQUIPMENT Group B (Active)													
	- / -	- / -	- / -	19 / 9.494	- / -	19 / 9.494	8 / 5.633	- / -	- / -	- / -	- / -	27 / 15.127	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / 9.494	- / -	- / 9.494	- / 5.633	- / -	- / -	- / -	- / -	- / 15.127	
<i>Subtotal: Situational Awareness</i>													
	- / -	- / 0.001	- / -	- / 10.987	- / -	- / 10.987	- / 9.733	- / -	- / -	- / -	- / -	- / 20.721	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / -	- / 0.001	- / -	- / 10.987	- / -	- / 10.987	- / 9.733	- / -	- / -	- / -	- / -	- / 20.721	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING													
	- / -	- / 8.816	- / -	- / 13.074	- / -	- / 13.074	- / -	- / -	- / -	- / -	- / -	- / 11.890	
SIM/TRAINER													
	- / -	- / -	- / -	- / -	- / -	- / -	1 / 14.723	- / -	- / -	- / -	- / -	1 / 14.723	
SUPPORT-EQUIP													
	- / -	- / 13.563	- / -	- / 12.329	- / -	- / 12.329	- / 2.500	- / -	- / -	- / -	- / -	- / 18.392	
<i>Subtotal: Support</i>													
	- / -	- / 12.379	- / -	- / 15.403	- / -	- / 15.403	1 / 17.223	- / -	- / -	- / -	- / -	1 / 35.005	
Installation													
<i>Modification Item 1 of 1: Situational Awareness</i>													
	- / -	16 / 0.120	- / -	3 / 0.421	- / -	3 / 0.421	8 / 0.665	- / -	- / -	- / -	- / -	27 / 1.206	
<i>Subtotal: Installation</i>													
	- / -	16 / 0.120	- / -	3 / 0.421	- / -	3 / 0.421	8 / 0.665	- / -	- / -	- / -	- / -	27 / 1.206	
Total													
Total Cost (Procurement + Support + Installation)													
	-	12.500	-	16.811	-	16.811	27.621	-	-	-	-	56.932	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8636 / HC-130J Situational Awareness

Modification Item 1 of 1: Situational Awareness

Manufacturer Information

Manufacturer Name: Lockheed Martin Aero				Manufacturer Location: Marietta, GA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 4			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Apr 2016		Apr 2017	Apr 2018			
Delivery Dates	Aug 2016		Aug 2017	Aug 2018			

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	16 / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.120
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	3 / 0.421	- / -	3 / 0.421	- / -	- / -	- / -	- / -	- / -	3 / 0.421
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.665	- / -	- / -	- / -	- / -	8 / 0.665
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	16 / 0.120	- / -	3 / 0.421	- / -	3 / 0.421	8 / 0.665	- / -	- / -	- / -	- / -	27 / 1.206

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	-	-	-	-	-	-	16	-	-	-	3	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	-	16	-	-	-	3	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications				Modification Number / Title: 8640 / HC-130J Countermeasures Dispenser System Rapid Dispense				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	-	9.300	9.300	-	-	-	-	-	9.300
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	-	9.300	9.300	-	-	-	-	-	9.300
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	-	9.300	9.300	-	-	-	-	-	9.300
<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:

Equips HC-130J Personnel Recovery aircraft with the Countermeasures Dispenser System (CMDS) Rapid Dispense modification and other defensive system upgrades. The HC-130J CMDS and associated defensive systems upgrades will provide for the rapid dispensing of chaff, flares, or a combination of both when needed to react to different types of threats. This modification includes non-recurring engineering, kits, spares and installation costs.

This is a FY17 New Start.

Milestone/Development Status

N/A

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8640 / HC-130J Countermeasures Dispenser System Rapid Dispense

Models of Systems Affected: HC-130J	Modification Type: Capability Improvement	Related RDT&E PEs: 0207224F
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: CMDS Rapid Dispense</i>												
B Kits												
Recurring												
CMDS Rapid Dispense:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	19 / 1.178	19 / 1.178	- / -	- / -	- / -	- / -	- / -	19 / 1.178
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / 1.178	- / 1.178	- / -	- / -	- / -	- / -	- / -	- / 1.178
<i>Subtotal: CMDS Rapid Dispense</i>	- / -	- / -	- / -	- / -	- / 1.178	- / 1.178	- / -	- / -	- / -	- / -	- / -	- / 1.178
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / 1.178	- / 1.178	- / -	- / -	- / -	- / -	- / -	- / 1.178
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / 0.555	- / 0.555	- / -	- / -	- / -	- / -	- / -	- / 0.555
SUPPORT-EQUIP	- / -	- / -	- / -	- / -	- / 0.226	- / 0.226	- / -	- / -	- / -	- / -	- / -	- / 0.226
OCO INSTALLATIONS	- / -	- / -	- / -	- / -	19 / 7.341	19 / 7.341	- / -	- / -	- / -	- / -	- / -	19 / 7.341
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / -	19 / 8.122	19 / 8.122	- / -	- / -	- / -	- / -	- / -	19 / 8.122
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	-	-	-	9.300	9.300	-	-	-	-	-	9.300

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications			Modification Number / Title: 8640 / HC-130J Countermeasures Dispenser System Rapid Dispense	
Modification Item 1 of 1: CMDS Rapid Dispense							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 8				Production Leadtime (in Months): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jun 2017				
Delivery Dates			Feb 2018				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: OTHACF / Other Aircraft
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207224F, 0207249F, 0207448F, 0207701F, 0303001F, 0303601F, 0401897F	Other Related Program Elements: 0207161F, 0207224F, 0207249F, 0207448F, 0207701F, 0303601F, 0401897F, 0604281F, 0702207F
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Line Item MDAP/MAIS Code: 199 **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	278.957	39.963	35.396	33.886	7.500	41.386	27.210	35.476	37.985	3.141	-	499.514
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	278.957	39.963	35.396	33.886	7.500	41.386	27.210	35.476	37.985	3.141	-	499.514
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	278.957	39.963	35.396	33.886	7.500	41.386	27.210	35.476	37.985	3.141	-	499.514

(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 multiple modifications that apply to weapon systems funded at less than \$2 million per year as well as weapon systems with much greater budgets. The overall goal of the modifications budgeted is to enhance capability and improve reliability and maintainability.

In FY16 FAB-T was transferred from PE: 0303601F to PE: 0303001F.

In FY17 there are significant modifications to a number of MAF Training systems to facilitate and/or enhance Distributed mission Operations Capability (networked trainer capability)" which addresses the FY17 activities in Mod 8670 MAF Training.

FY17 Overseas Contingency Operation (OCO) funding of \$7.500M supports Battlefield ABN Comm Node(BACN)Engineering Change Orders (ECOs).

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	39.963	35.396	33.886	7.500	41.386	27.210	35.476	37.985
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: OTHACF / Other Aircraft
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207224F, 0207249F, 0207448F, 0207701F, 0303001F, 0303601F, 0401897F	Other Related Program Elements: 0207161F, 0207224F, 0207249F, 0207448F, 0207701F, 0303601F, 0401897F, 0604281F, 0702207F
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Line Item MDAP/MAIS Code: 199	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	39.963	35.396	33.886	7.500	41.386	27.210	35.476	37.985	3.141

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

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

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207224F, 0207249F, 0207448F, 0207701F, 0303001F, 0303601F, 0401897F **Other Related Program Elements:** 0207161F, 0207224F, 0207249F, 0207448F, 0207701F, 0303601F, 0401897F, 0604281F, 0702207F

Line Item MDAP/MAIS Code: 199 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	1000 / COMBAT AIR FORCES RESCUE MSN TRNG (No text provided.)			- / 5.039	- / -	- / -	- / -	- / -	- / -
P-40a***	2002 / ANG RC-26 (No text provided.)			- / 0.267	- / -	- / -	- / -	- / -	- / -
P-40a***	4501 / EHF SATCOM (Capability Improvement)			- / 15.502	- / 21.784	- / 0.001	- / -	- / -	- / -
P-40a***	8669 / Full Combat Mission Training (Capability Improvement)			- / 57.234	- / 1.140	- / 2.459	- / 1.694	- / -	- / 1.694
P-40a***	8672 / Sniper CMDL Backback Kits and Datalogger Purchase (Other)			- / 7.807	- / -	- / -	- / -	- / -	- / -
P-40a***	8674 / ATP upgrade Legacy to SE (Other)			- / 31.907	- / 3.210	- / 1.033	- / 0.821	- / -	- / 0.821
P-40a***	8675 / ATP-SE Technology Insertion (Capability Improvement)			- / -	- / -	- / 29.875	- / -	- / -	- / -
P-40a***	8727 / MH-53 IFF APX-118 (No text provided.)			- / 0.291	- / -	- / -	- / -	- / -	- / -
P-40a***	8728 / DEPOT MAINTENANCE (NON-IF) (Capability Improvement)			- / 1.249	- / -	- / -	- / -	- / -	- / -
P-40a***	8729 / Theatre Airborne Reconnaissance System (TARS) (Capability Improvement)			- / 8.423	- / -	- / -	- / -	- / -	- / -
P-40a***	9860A / JOINT TACTICAL RADIO SYSTEM (Capability Improvement)			- / 86.636	- / 4.502	- / -	- / -	- / -	- / -
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (No text provided.)			- / 0.002	- / -	- / -	- / -	- / -	- / -
P-40a***	99999F / LOW COST MODIFICATIONS - TARGETING PODS (Other)			- / 0.003	- / -	- / -	- / -	- / -	- / -
P-40a***	99999J / MISCELLANEOUS LOW COSTS MODS (Combat Developments) (Other)			- / 2.119	- / 0.140	- / 0.128	- / 0.138	- / -	- / 0.138
P-40a***	99999U / LOW COST RETROFIT MODS (No text provided.)			- / 0.779	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (No text provided.)			- / 0.002	- / -	- / -	- / -	- / -	- / -
P-40a***	CMWS / COMMON MISSILE WARNING SYSTEM (No text provided.)			- / 0.755	- / -	- / -	- / -	- / -	- / -
P-40a***	HH-60U / HH-60U (Capability Improvement)			- / -	- / -	- / 1.900	- / 1.708	- / -	- / 1.708
P-40a***	T8137 / UHF SATCOM UPGRADE (Capability Improvement)			- / 39.396	- / -	- / -	- / -	- / -	- / -
P-3a	8670 / MAF Training (Capability Improvement)			- / 21.546	- / 7.197	- / -	- / 29.525	- / -	- / 29.525
P-3a	8733 / Battlefield ABN Comm Node (BACN) (Other)			- / -	- / 1.990	- / -	- / -	- / 7.500	- / 7.500
P-40	Total Gross/Weapon System Cost			- / 278.957	- / 39.963	- / 35.396	- / 33.886	- / 7.500	- / 41.386

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	1000 / COMBAT AIR FORCES RESCUE MSN TRNG (No text provided.)			- / -	- / -	- / -	- / -	- / -	- / 5.039
P-40a***	2002 / ANG RC-26 (No text provided.)			- / -	- / -	- / -	- / -	- / -	- / 0.267
P-40a***	4501 / EHF SATCOM (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 37.287
P-40a***	8669 / Full Combat Mission Training (Capability Improvement)			- / 5.468	- / 5.713	- / 1.975	- / 2.011	- / -	- / 77.694
P-40a***	8672 / Sniper CMDL Backback Kits and Datalogger Purchase (Other)			- / -	- / -	- / -	- / -	- / -	- / 7.807
P-40a***	8674 / ATP upgrade Legacy to SE (Other)			- / 0.976	- / 0.940	- / 0.957	- / 0.975	- / -	- / 40.819

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

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

ID Code (A=Service Ready, B=Not Service Ready): B

Program Elements for Code B Items: 0207224F, 0207249F, 0207448F, 0207701F, 0303001F, 0303601F, 0401897F

Other Related Program Elements: 0207161F, 0207224F, 0207249F, 0207448F, 0207701F, 0303601F, 0401897F, 0604281F, 0702207F

Line Item MDAP/MAIS Code: 199 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8675 / ATP-SE Technology Insertion (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 29.875
P-40a***	8727 / MH-53 IFF APX-118 (No text provided.)			- / -	- / -	- / -	- / -	- / -	- / 0.291
P-40a***	8728 / DEPOT MAINTENANCE (NON-IF) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 1.249
P-40a***	8729 / Theatre Airborne Reconnaissance System (TARS) (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 8.423
P-40a***	9860A / JOINT TACTICAL RADIO SYSTEM (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 91.138
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (No text provided.)			- / -	- / -	- / -	- / -	- / -	- / 0.002
P-40a***	99999F / LOW COST MODIFICATIONS - TARGETING PODS (Other)			- / -	- / -	- / -	- / -	- / -	- / 0.003
P-40a***	99999J / MISCELLANEOUS LOW COSTS MODS (Combat Developments) (Other)			- / 0.162	- / 0.149	- / 0.152	- / 0.155	- / -	- / 3.143
P-40a***	99999U / LOW COST RETROFIT MODS (No text provided.)			- / -	- / -	- / -	- / -	- / -	- / 0.779
P-40a***	99999X / Low Cost Modifications (No text provided.)			- / -	- / -	- / -	- / -	- / -	- / 0.002
P-40a***	CMWS / COMMON MISSILE WARNING SYSTEM (No text provided.)			- / -	- / -	- / -	- / -	- / -	- / 0.755
P-40a***	HH-60U / HH-60U (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 3.608
P-40a***	T8137 / UHF SATCOM UPGRADE (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 39.396
P-3a	8670 / MAF Training (Capability Improvement)			- / 20.604	- / 28.674	- / 34.901	- / -	- / -	- / 142.447
P-3a	8733 / Battlefield ABN Comm Node (BACN) (Other)			- / -	- / -	- / -	- / -	- / -	- / 9.490
P-40	Total Gross/Weapon System Cost			- / 27.210	- / 35.476	- / 37.985	- / 3.141	- / -	- / 499.514

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

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

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

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8670 / MAF Training
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	21.546	7.197	-	29.525	-	29.525	20.604	28.674	34.901	-	-	142.447
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	21.546	7.197	-	29.525	-	29.525	20.604	28.674	34.901	-	-	142.447
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	21.546	7.197	-	29.525	-	29.525	20.604	28.674	34.901	-	-	142.447

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

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

Description:

Mobility Air Forces (MAF) Training supports the modification and enhancement of high fidelity MAF aircrew training and support systems to ensure full employment of Distributed Mission Operations (DMO) capabilities to meet combat readiness training needs. Use of enhanced, DMO-capable trainers provides a cost effective means of conducting daily training, mission rehearsal, joint force exercises, tactics development activity, and Virtual Aerial Refueling (VAR). This makes aircraft that would otherwise be used for training available to war fighting commanders to conduct combat operations.

FY2017 supports, but is not limited to, the KC-135 Aircrew Training System (ATS), C-5 ATS, Intra-Altus Network, and MAF Training support systems.

MAF Training funded in PE 0401897F.

The following items are included in the support SIM/TRAINER funding line and will be moved to the proper Budget Activity (BA) line within the appropriate weapon system code:

FY2018 C-130J Cockpit Procedural Trainer to be realigned to the C-130J Line# in BA02 and KC-10 Simulator Lateral Motion Maneuver Modification to the KC-10 Line# in BA05.

FY2019 C-17 Visual System Field of View to be realigned to C-17 Line# in BA05, C-17 Cargo Load Trainer Model to be realigned to the C-17 Line# in BA07, and C-17 Simulator Lateral Motion Maneuver Modification to the C-17 Line# in BA05.

FY2020 C-130J Fuselage Trainer to be realigned to the C-130J Line# in BA02, KC-135 Cargo Compartment trainer to be realigned to the KC-135 Line# in BA07, and C-17 Simulator Lateral Motion Maneuver Modification to the C-17 Line# in BA05.

Milestone/Development Status

N/A

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.197	-	29.525	-	29.525	20.604	28.674	34.901	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.197	-	29.525	-	29.525	20.604	28.674	34.901	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: OTHACF / Other Aircraft					Modification Number / Title: 8670 / MAF Training			
Models of Systems Affected: KC-135, C-5				Modification Type: Capability Improvement				Related RDT&E PEs: 0401897F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
RDT&E PE #													
0401897F													
Procurement													
Modification Item 1 of 6: C-5 Simulator Lateral Motion Maneuver Modification													
A Kits													
Recurring													
C-5 Simulator Lateral Motion Maneuver Modification:INSTALL KITS Group A (Active)													
	- / -	- / -	- / -	5 / 1.700	- / -	5 / 1.700	- / -	- / -	- / -	- / -	- / -	5 / 1.700	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / 1.700	- / -	- / 1.700	- / -	- / -	- / -	- / -	- / -	- / 1.700	
<i>Subtotal: C-5 Simulator Lateral Motion Maneuver Modification</i>													
	- / -	- / -	- / -	- / 1.700	- / -	- / 1.700	- / -	- / -	- / -	- / -	- / -	- / 1.700	
Modification Item 2 of 6: C-5 System Integration Lab (SIL)													
A Kits													
Recurring													
C-5 System Integration Lab (SIL):INSTALL KITS Group A (Active)													
	- / -	- / -	- / -	1 / 4.000	- / -	1 / 4.000	- / -	- / -	- / -	- / -	- / -	1 / 4.000	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / 4.000	- / -	- / 4.000	- / -	- / -	- / -	- / -	- / -	- / 4.000	
<i>Subtotal: C-5 System Integration Lab (SIL)</i>													
	- / -	- / -	- / -	- / 4.000	- / -	- / 4.000	- / -	- / -	- / -	- / -	- / -	- / 4.000	
Modification Item 3 of 6: C-5 WST DMO													
A Kits													
Recurring													
C-5 WST DMO:INSTALL KITS Group A (Active)													
	- / -	- / -	- / -	5 / 12.300	- / -	5 / 12.300	- / -	- / -	- / -	- / -	- / -	5 / 12.300	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / 12.300	- / -	- / 12.300	- / -	- / -	- / -	- / -	- / -	- / 12.300	
<i>Subtotal: C-5 WST DMO</i>													
	- / -	- / -	- / -	- / 12.300	- / -	- / 12.300	- / -	- / -	- / -	- / -	- / -	- / 12.300	
Modification Item 4 of 6: Intra-Altus Network													
A Kits													
Recurring													
Intra-Altus Network:INSTALL KITS Group A (Active)													
	- / -	- / -	- / -	1 / 1.630	- / -	1 / 1.630	- / -	- / -	- / -	- / -	- / -	1 / 1.630	
<i>Subtotal: Recurring</i>													
	- / -	- / -	- / -	- / 1.630	- / -	- / 1.630	- / -	- / -	- / -	- / -	- / -	- / 1.630	
<i>Subtotal: Intra-Altus Network</i>													
	- / -	- / -	- / -	- / 1.630	- / -	- / 1.630	- / -	- / -	- / -	- / -	- / -	- / 1.630	
Modification Item 5 of 6: KC-135 DMO Virtual Air Refueling													

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: OTHACF / Other Aircraft					Modification Number / Title: 8670 / MAF Training			
Models of Systems Affected: KC-135, C-5				Modification Type: Capability Improvement				Related RDT&E PEs: 0401897F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
A Kits													
Recurring													
KC-135 DMO Virtual Air Refueling:INSTALL KITS Group A (Active)	- / -	1 / 7.197	- / -	17 / 9.235	- / -	17 / 9.235	- / -	- / -	- / -	- / -	- / -	18 / 16.432	
<i>Subtotal: Recurring</i>	- / -	- / 7.197	- / -	- / 9.235	- / -	- / 9.235	- / -	- / -	- / -	- / -	- / -	- / 16.432	
<i>Subtotal: KC-135 DMO Virtual Air Refueling</i>	- / -	- / 7.197	- / -	- / 9.235	- / -	- / 9.235	- / -	- / -	- / -	- / -	- / -	- / 16.432	
Modification Item 6 of 6: MAF DMO													
A Kits													
Recurring													
MAF DMO:INSTALL KITS Group A (Active)	- / -	- / -	- / -	1 / 0.560	- / -	1 / 0.560	- / -	- / -	- / -	- / -	- / -	1 / 0.560	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.560	- / -	- / 0.560	- / -	- / -	- / -	- / -	- / -	- / 0.560	
<i>Subtotal: MAF DMO</i>	- / -	- / -	- / -	- / 0.560	- / -	- / 0.560	- / -	- / -	- / -	- / -	- / -	- / 0.560	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 7.197	- / -	- / 29.425	- / -	- / 29.425	- / -	- / -	- / -	- / -	- / -	- / 36.622	
Support (All Modification Items)													
SIM/TRAINER	24 / 21.546	- / -	- / -	- / -	- / -	- / -	3 / 20.504	3 / 28.574	2 / 34.801	- / -	- / -	32 / 105.425	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / -	- / 0.400	
<i>Subtotal: Support</i>	24 / 21.546	- / -	- / -	- / 0.100	- / -	- / 0.100	3 / 20.604	3 / 28.674	2 / 34.901	- / -	- / -	32 / 105.825	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	21.546	7.197	-	29.525	-	29.525	20.604	28.674	34.901	-	-	142.447	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8670 / MAF Training
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Modification Item 1 of 6: C-5 Simulator Lateral Motion Maneuver Modification

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jun 2017				
Delivery Dates			Jun 2018				

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 5
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8670 / MAF Training
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Modification Item 2 of 6: C-5 System Integration Lab (SIL)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (<i>in Months</i>): 8	Production Leadtime (<i>in Months</i>): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jun 2017				
Delivery Dates			Jun 2018				

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 1
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8670 / MAF Training
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Modification Item 3 of 6: C-5 WST DMO

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jun 2017				
Delivery Dates			Jun 2018				

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 5
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8670 / MAF Training
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Modification Item 4 of 6: Intra-Altus Network

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: Altus Air Force Base
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Administrative Leadtime (<i>in Months</i>): 8	Production Leadtime (<i>in Months</i>): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jun 2017				
Delivery Dates			Jun 2018				

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 1
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8670 / MAF Training
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Modification Item 5 of 6: KC-135 DMO Virtual Air Refueling

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2016		Jan 2017				
Delivery Dates	Jan 2017		Jan 2018				

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 17
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8670 / MAF Training
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Modification Item 6 of 6: MAF DMO

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (<i>in Months</i>): 8	Production Leadtime (<i>in Months</i>): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jun 2017				
Delivery Dates			Jun 2018				

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 1
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: OTHACF / Other Aircraft				Modification Number / Title: 8733 / Battlefield ABN Comm Node (BACN)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	1.990	-	-	7.500	7.500	-	-	-	-	-	9.490
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	1.990	-	-	7.500	7.500	-	-	-	-	-	9.490
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	1.990	-	-	7.500	7.500	-	-	-	-	-	9.490
<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:

FY15 OCO request for BACN Engineering Change Orders (ECOs).

This is a new start in FY15

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.990	-	-	7.500	7.500	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.990	-	-	7.500	7.500	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8733 / Battlefield ABN Comm Node (BACN)

Models of Systems Affected: MULTI	Modification Type: Other	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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> E-11A Eng; Modify MIDS Radios												
A Kits												
Recurring												
E-11A Eng; Modify MIDS Radios:INSTALL KITS Group A (Active)	- / -	- / 1.990	- / -	- / -	- / 7.500	- / 7.500	- / -	- / -	- / -	- / -	- / -	- / 9.490
<i>Subtotal: Recurring</i>	- / -	- / 1.990	- / -	- / -	- / 7.500	- / 7.500	- / -	- / -	- / -	- / -	- / -	- / 9.490
<i>Subtotal: E-11A Eng; Modify MIDS Radios</i>	- / -	- / 1.990	- / -	- / -	- / 7.500	- / 7.500	- / -	- / -	- / -	- / -	- / -	- / 9.490
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 1.990	- / -	- / -	- / 7.500	- / 7.500	- / -	- / -	- / -	- / -	- / -	- / 9.490
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	1.990	-	-	7.500	7.500	-	-	-	-	-	9.490

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: OTHACF / Other Aircraft		Modification Number / Title: 8733 / Battlefield ABN Comm Node (BACN)		
Modification Item 1 of 1: E-11A Eng; Modify MIDS Radios							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: PRDT01 / MQ-1 Mods
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305219F
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	468.136	4.755	3.173	-	-	-	-	-	-	-	-	476.064
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	468.136	4.755	3.173	-	-	-	-	-	-	-	-	476.064
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	468.136	4.755	3.173	-	-	-	-	-	-	-	-	476.064

(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:

MQ-1 Predator is an autonomous, long-dwell, unmanned reconnaissance system capable of operating over the horizon while providing real-time intelligence information to the Joint Task Force Commander. The air vehicle carries Electro-Optical (EO) and Infra-Red (IR) sensors, and is capable of transmitting near real-time Full Motion Video (FMV) to the task force commander and throughout the operational theater. There are currently 138 aircraft in the inventory; service life has been extended to at least 20,000 hours based on non-destructive inspection of high-time aircraft, but average service life remaining is yet to be determined.

Funding for this exhibit contained in PE 0305219F.

Due to the MQ-1 Predator divestiture, FY2016 will be the last year of procurement funding.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
PRDT01 / MQ-1 Mods

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	4445 / Aircraft PPDL (Reliability & Maintainability)			- / 24.708	- / -	- / -	- / -	- / -	- / -
P-40a***	4446 / Differential GPS (Capability Improvement)			- / 4.701	- / -	- / -	- / -	- / -	- / -
P-40a***	4447 / Digital Video (Capability Improvement)			- / 20.834	- / -	- / -	- / -	- / -	- / -
P-40a***	4451 / VORTEX (Capability Improvement)			- / 31.305	- / -	- / -	- / -	- / -	- / -
P-40a***	4452 / GCS PPDL (Capability Improvement)			- / 106.948	- / -	- / -	- / -	- / -	- / -
P-40a***	4453 / GCS Modernization (Capability Improvement)			- / 36.362	- / -	- / -	- / -	- / -	- / -
P-40a***	4457 / IP Migration (Capability Improvement)			- / 32.413	- / 0.702	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)			- / 1.167	- / 2.000	- / 2.000	- / -	- / -	- / -
P-40a***	PRDT02 / PREDATOR A/B MODIFICATIONS (Capability Improvement)			- / 209.698	- / 2.053	- / 1.173	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 468.136	- / 4.755	- / 3.173	- / -	- / -	- / -

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	4445 / Aircraft PPDL (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 24.708
P-40a***	4446 / Differential GPS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 4.701
P-40a***	4447 / Digital Video (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 20.834
P-40a***	4451 / VORTEX (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 31.305
P-40a***	4452 / GCS PPDL (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 106.948
P-40a***	4453 / GCS Modernization (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 36.362
P-40a***	4457 / IP Migration (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 33.115
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)			- / -	- / -	- / -	- / -	- / -	- / 5.167
P-40a***	PRDT02 / PREDATOR A/B MODIFICATIONS (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 212.924
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 476.064

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

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

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

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
PRDTB2 / MQ-9 MODS

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0205219F **Other Related Program Elements:** 0205219F

Line Item MDAP/MAIS Code: 424 **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	357.177	155.445	184.051	141.929	112.068	253.997	202.861	236.691	229.439	240.745	2,844.522	4,704.928
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	357.177	155.445	184.051	141.929	112.068	253.997	202.861	236.691	229.439	240.745	2,844.522	4,704.928
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	357.177	155.445	184.051	141.929	112.068	253.997	202.861	236.691	229.439	240.745	2,844.522	4,704.928

(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:

FY16 funding totals include \$69.000M appropriated for Overseas Contingency Operations.

The MQ-9 Reaper system is designed primarily to prosecute critical emerging Time Sensitive Targets (TSTs) as a radar-based attack asset with organic hard-kill capability (hunter-killer) and also perform Intelligence, Surveillance, Reconnaissance and Target Acquisition (ISR TA) as a secondary role. In the hunter-killer role, the aircraft will employ multi-spectral sensors to automatically find, fix, and track ground targets using Automatic Target Cueing (ATC) and assess post-strike results. 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 aircraft 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 control station configurations to be tailored to fit mission needs. The MQ-9 aircraft will continue to be modified to ensure aircraft are standardized with the latest configuration. Additionally, the MQ-9 system will continue to evolve and upgrade its capabilities to satisfy new requirements and address Reliability and Maintainability (R&M) and safety issues as they arise. Retrofit also includes aircraft (including sensors) and ground control station and ground support system retrofits to baseline configurations.

There are currently 167 Blk 1 and 10 Blk 5 MQ-9 aircraft totaling 177 in the inventory with an estimated designed service life of 20,000 hours.

Efforts in this modification summary and associated P3As have been broken out into several categories: GCS Blk 50, Block 5, Multi-Spectral Targeting System-B (MTS-B) High Definition (HD), Technology Insertion, Extended Range MQ-9, MQ-9 Low Cost Mods, MQ-9 Field, Lynx SAR, GCS Blk 30, Reliability and Maintainability (R&M) enhancements, MQ-9 Upgrades, GCS Tech Refresh and Communication Enhancements.

The program has been funded to latest cost estimate.

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

This program has associated Research, Development Test and Evaluation (RDT&E) AF funding in MQ-9 PE 0205219F.

Funding for this exhibit contained in PE 0205219F.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
PRDTB2 / MQ-9 MODS

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0205219F **Other Related Program Elements:** 0205219F

Line Item MDAP/MAIS Code: 424 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8679 / GCS Blk 50 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9153 / MTS-B HD (Capability Improvement)			- / 22.739	- / 0.272	- / -	- / -	- / -	- / -
P-40a***	9161 / IP Migration (Capability Improvement)			- / 29.290	- / 1.974	- / -	- / -	- / -	- / -
P-40a***	99999B / MQ-9 Low Cost Mods (Reliability & Maintainability)			- / 2.000	- / 2.000	- / 2.000	- / 2.000	- / -	- / 2.000
P-3a	9151 / Block 5 (Capability Improvement)			- / 0.000	- / -	- / 6.399	- / 21.794	- / -	- / 21.794
P-3a	9152 / MQ-9 Field (Capability Improvement)			- / 148.564	- / 19.868	- / 5.334	- / 2.843	- / 5.068	- / 7.911
P-3a	9154 / Lynx SAR (Capability Improvement)			- / -	- / 33.432	- / 24.907	- / 25.317	- / -	- / 25.317
P-3a	9155 / GCS Blk 30 (Capability Improvement)			- / 61.733	- / 22.380	- / 11.012	- / 14.717	- / -	- / 14.717
P-3a	9159 / R&M enhancements (Reliability & Maintainability)			- / 9.241	- / 27.241	- / 32.210	- / 6.256	- / -	- / 6.256
P-3a	9164 / Extended Range MQ-9 (Capability Improvement)			- / 83.610	- / 48.278	- / 102.189	- / 39.262	- / -	- / 39.262
P-3a	9167 / MQ-9 Upgrade (Capability Improvement)			- / -	- / -	- / -	- / 29.740	- / 107.000	- / 136.740
P-40	Total Gross/Weapon System Cost			- / 357.177	- / 155.445	- / 184.051	- / 141.929	- / 112.068	- / 253.997

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	8679 / GCS Blk 50 (Capability Improvement)			- / -	- / -	- / 38.675	- / 77.682	- / 337.384	- / 453.741
P-40a***	9153 / MTS-B HD (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 23.011
P-40a***	9161 / IP Migration (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 31.264
P-40a***	99999B / MQ-9 Low Cost Mods (Reliability & Maintainability)			- / 2.000	- / 2.000	- / 2.000	- / 2.000	- / 2.000	- / 18.000
P-3a	9151 / Block 5 (Capability Improvement)			- / 47.336	- / 108.389	- / 109.305	- / 91.545	- / 897.109	- / 1,281.877
P-3a	9152 / MQ-9 Field (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 181.677
P-3a	9154 / Lynx SAR (Capability Improvement)			- / 27.239	- / 14.048	- / -	- / -	- / -	- / 124.943
P-3a	9155 / GCS Blk 30 (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 109.842
P-3a	9159 / R&M enhancements (Reliability & Maintainability)			- / 2.179	- / 2.320	- / 2.337	- / 1.684	- / 30.811	- / 114.279
P-3a	9164 / Extended Range MQ-9 (Capability Improvement)			- / 48.977	- / 12.035	- / -	- / -	- / -	- / 334.351
P-3a	9167 / MQ-9 Upgrade (Capability Improvement)			- / 75.130	- / 97.899	- / 77.122	- / 67.834	- / 1,577.218	- / 2,031.943
P-40	Total Gross/Weapon System Cost			- / 202.861	- / 236.691	- / 229.439	- / 240.745	- / 2,844.522	- / 4,704.928

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

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

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

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

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9151 / Block 5
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	6.399	21.794	-	21.794	47.336	108.389	109.305	91.545	897.109	1,281.877
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	-	6.399	21.794	-	21.794	47.336	108.389	109.305	91.545	897.109	1,281.877
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	6.399	21.794	-	21.794	47.336	108.389	109.305	91.545	897.109	1,281.877

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

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

Description:

This modification program includes 3 overarching projects:

The first project includes a depot retrofit program that upgrades MQ-9 aircraft from the Block 1 configuration to the Block 5 configuration. Upgrades for this item include, but are not limited to, installing High Capacity Starter-Generator, Predator Primary Data Link (PPDL), Forward Avionics Bay Redesign, VORTEX Datalink, GBU-49/54, AGM-114R, and Mission Control Module/Payload Control Computer (MCM/PCC). For this project, the program office will be modifying all 176 Block 1 aircraft to Block 5. No funding for this project is requested in FY17.

The second and third project incorporates the approved Hybrid Acquisition Strategy via a schedule driven release of capability. The first two Releases add new capability into the MQ-9 Block 5 configuration. Specifically, Release 1 ("Block 5" Modification Project 2) includes, but is not limited to: Vortex Block 5, Multi-Station Beyond Line of Sight (BLOS) on stations 1 & 7, Barrett Asymmetrical Datalink Device Computer (BADDC) Ground Control Station (GCS) kits. Release 2 ("Block 5" Modification Project 3) includes, but is not limited to BADDC aircraft kits, and Block 5 Extended Range Kits. For both Releases covered under the "Block 5" modification program, the program office will modify all 148 Block 5 aircraft.

Requirements for this modification are validated in the MQ-9 Capability Production Document dated 8 August 2006.

This program will revise quantities based on updated user requirements and as funding permits.

Milestone/Development Status

MQ-9 Block 5 Critical Design Review (CDR) completed Apr 11. Block 5 is in flight test with 904.6 software release. Developmental Test was completed July 2015. FOT&E is scheduled to begin by January 2016 and complete NLT Sep 2016.

Milestone/Development Status

MQ-9 Block 5 Critical Design Review (CDR) completed Apr 11. Block 5 is in flight test with 904.6 software release. Developmental Test was completed July 2015. FOT&E is scheduled to begin by January 2016 and complete NLT Sep 2016.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS					Modification Number / Title: 9151 / Block 5			
Models of Systems Affected: MQ-9				Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0205219F	- / 817.828	- / 141.528	- / 122.731	- / 151.373	- / -	- / 151.373	- / 156.708	- / 153.047	- / 163.482	- / 66.382	- / 635.041	- / 2,408.120	
Procurement													
Modification Item 1 of 3: Blk 1 to Blk 5													
A Kits													
Recurring													
Blk 1 to Blk 5:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	176 / 64.154	176 / 64.154
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 64.154	- / 64.154
B Kits													
Recurring													
Blk 1 to Blk 5:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	176 / 577.386	176 / 577.386
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 577.386	- / 577.386
Subtotal: Blk 1 to Blk 5	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 641.540	- / 641.540
Modification Item 2 of 3: Hybrid Release 1													
A Kits													
Recurring													
Hybrid Release 1:INSTALL KITS Group A (Active)	- / -	- / -	14 / 0.626	48 / 1.988	- / -	48 / 1.988	48 / 2.046	38 / 1.611	- / -	- / -	- / -	148 / 6.271	
Subtotal: Recurring	- / -	- / -	- / 0.626	- / 1.988	- / -	- / 1.988	- / 2.046	- / 1.611	- / -	- / -	- / -	- / 6.271	
B Kits													
Recurring													
Hybrid Release 1:EQUIPMENT Group B (Active)	- / -	- / -	14 / 5.634	48 / 17.892	- / -	48 / 17.892	48 / 18.414	38 / 14.499	- / -	- / -	- / -	148 / 56.439	
Subtotal: Recurring	- / -	- / -	- / 5.634	- / 17.892	- / -	- / 17.892	- / 18.414	- / 14.499	- / -	- / -	- / -	- / 56.439	
Subtotal: Hybrid Release 1	- / -	- / -	- / 6.260	- / 19.880	- / -	- / 19.880	- / 20.460	- / 16.110	- / -	- / -	- / -	- / 62.710	
Modification Item 3 of 3: Hybrid Release 2													
A Kits													
Recurring													
Hybrid Release 2:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	14 / 2.193	48 / 7.737	48 / 7.962	38 / 6.486	- / -	148 / 24.378	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.193	- / 7.737	- / 7.962	- / 6.486	- / -	- / 24.378	
B Kits													
Recurring													
Hybrid Release 2:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	14 / 19.737	48 / 69.633	48 / 71.658	38 / 58.374	- / -	148 / 219.402	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.737	- / 69.633	- / 71.658	- / 58.374	- / -	- / 219.402	
Subtotal: Hybrid Release 2	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.930	- / 77.370	- / 79.620	- / 64.860	- / -	- / 243.780	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS					Modification Number / Title: 9151 / Block 5			
Models of Systems Affected: MQ-9				Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 6.260	- / 19.880	- / -	- / 19.880	- / 42.390	- / 93.480	- / 79.620	- / 64.860	- / 641.540	- / 948.030	
Support (All Modification Items)													
OTHER GOVT	- / -	- / -	- / 0.139	- / 0.984	- / -	- / 0.984	- / 2.326	- / 5.589	- / 4.295	- / 2.635	- / 86.269	- / 102.237	
<i>Subtotal: Support</i>	- / -	- / -	- / 0.139	- / 0.984	- / -	- / 0.984	- / 2.326	- / 5.589	- / 4.295	- / 2.635	- / 86.269	- / 102.237	
Installation													
<i>Modification Item 1 of 3: Blk 1 to Blk 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	176 / 149.710	176 / 149.710	
<i>Modification Item 2 of 3: Hybrid Release 1</i>	- / -	- / -	- / -	14 / 0.930	- / -	14 / 0.930	48 / 2.620	48 / 2.690	38 / 2.020	- / -	- / -	148 / 8.260	
<i>Modification Item 3 of 3: Hybrid Release 2</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 6.630	48 / 23.370	48 / 24.050	38 / 19.590	148 / 73.640	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	14 / 0.930	- / -	14 / 0.930	48 / 2.620	62 / 9.320	86 / 25.390	48 / 24.050	214 / 169.300	472 / 231.610	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	6.399	21.794	-	21.794	47.336	108.389	109.305	91.545	897.109	1,281.877	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9151 / Block 5

Modification Item 1 of 3: Blk 1 to Blk 5

Manufacturer Information

Manufacturer Name: General Atomics ASI	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	176 / 149.710	176 / 149.710
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	176 / 149.710	176 / 149.710

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176	176
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176	176

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9151 / Block 5

Modification Item 2 of 3: Hybrid Release 1

Manufacturer Information

Manufacturer Name: General Atomics ASI	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019		
Delivery Dates		Jul 2016	Jul 2017	Jul 2018	Jul 2019		

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	14 / 0.930	- / -	14 / 0.930	- / -	- / -	- / -	- / -	- / -	14 / 0.930
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.620	- / -	- / -	- / -	- / -	48 / 2.620
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.690	- / -	- / -	- / -	48 / 2.690
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 2.020	- / -	- / -	38 / 2.020
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	14 / 0.930	- / -	14 / 0.930	48 / 2.620	48 / 2.690	38 / 2.020	- / -	- / -	148 / 8.260

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	12	12	12	12	12	12	12	12	12	12	12	12	2	-	-	-	-	-	148
Out	0	-	-	-	-	-	-	-	-	-	-	-	2	12	12	12	12	12	12	12	12	12	12	12	12	2	-	-	-	-	148

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9151 / Block 5

Modification Item 3 of 3: Hybrid Release 2

Manufacturer Information

Manufacturer Name: General Atomics ASI	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates				Jul 2018	Jul 2019	Jul 2020	Jul 2021

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 6.630	- / -	- / -	- / -	14 / 6.630
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 23.370	- / -	- / -	48 / 23.370
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 24.050	- / -	48 / 24.050
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 19.590	38 / 19.590
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 6.630	48 / 23.370	48 / 24.050	38 / 19.590	148 / 73.640

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	2	12	12	12	12	12	12	12	12	38	148
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	2	12	12	12	12	12	12	12	12	38	148

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS				Modification Number / Title: 9152 / MQ-9 Field				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	148.564	19.868	5.334	2.843	5.068	7.911	-	-	-	-	-	181.677
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	148.564	19.868	5.334	2.843	5.068	7.911	-	-	-	-	-	181.677
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	148.564	19.868	5.334	2.843	5.068	7.911	-	-	-	-	-	181.677

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

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

Description:

This modification is a portion of the field retrofit program that upgrades Block 1 MQ-9 aircraft with enhanced capabilities and utilizes a field team to perform the modification. Upgrades that are part of this modification include High Definition (HD) aircraft upgrades, Bomb Release Units (BRU)-71 bomb racks, Heavyweight Main Landing Gear (HMLG), VORTEX encrypted datalink, Stores Management System (SMS), and Selective Availability Anti-Spoofing Module (SAASM). The associated costs reflect all costs associated with the multiple elements of the MQ-9 field retrofits.

The quantity of aircraft for each Blk 1 modification varies depending on when the capability was cut into production. For the Heavy Main Landing Gear modification the program office will be modifying the remaining 110 aircraft.

Baseline funded Mods:	Prior	FY15	FY16	FY17	Total
HMLG Kits	110				110
HMLG Installs	20	32	32	26	110
Vortex Blk 1 Kits	144	48	8		200
Vortex Blk 1 Installs	76	48	48	8	180*

* Note: 20 Vortex kits have been re-purposed as GFE and are not on current installation schedule.

FY17 OCO request includes \$5.068M for procurement and installation of 48 GPS splitter kits, 48 Beyond Line of Site (BLOS) Station 7 kits, and 24 Barrett Asymmetric Digital Data Link Computers (BADDCC). Due to a documentation software limitation, installation costs of \$0.790M for the OCO funded kits are shown under Other Government Costs. Installation of 24 GPS splitter kits and 24 Beyond Line of Site (BLOS) Station 7 kits will occur in FY18 due to limited installation capacity.

Milestone/Development Status

Development complete.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS					Modification Number / Title: 9152 / MQ-9 Field			
Models of Systems Affected: MQ-9				Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0205219F	- / 817.828	- / 141.528	- / 122.731	- / 151.373	- / -	- / 151.373	- / 156.708	- / 153.047	- / 163.482	- / 166.382	- / -	- / 1,873.079	
Procurement													
Modification Item 1 of 1: MQ-9 Field Mods													
A Kits													
Recurring													
MQ-9 Field Mods:INSTALL KITS Group A (Active)	254 / 14.607	48 / 1.748	8 / 0.143	- / 0.077	72 / 0.428	72 / 0.505	- / -	- / -	- / -	- / -	- / -	382 / 17.003	
<i>Subtotal: Recurring</i>	- / 14.607	- / 1.748	- / 0.143	- / 0.077	- / 0.428	- / 0.505	- / -	- / -	- / -	- / -	- / -	- / 17.003	
B Kits													
Recurring													
MQ-9 Field Mods:EQUIPMENT Group B (Active)	254 / 129.487	48 / 15.732	8 / 1.287	- / 0.691	72 / 3.850	72 / 4.541	- / -	- / -	- / -	- / -	- / -	382 / 151.047	
<i>Subtotal: Recurring</i>	- / 129.487	- / 15.732	- / 1.287	- / 0.691	- / 3.850	- / 4.541	- / -	- / -	- / -	- / -	- / -	- / 151.047	
<i>Subtotal: MQ-9 Field Mods</i>	- / 144.094	- / 17.480	- / 1.430	- / 0.768	- / 4.278	- / 5.046	- / -	- / -	- / -	- / -	- / -	- / 168.050	
<i>Subtotal: Procurement, All Modification Items</i>	- / 144.094	- / 17.480	- / 1.430	- / 0.768	- / 4.278	- / 5.046	- / -	- / -	- / -	- / -	- / -	- / 168.050	
Support (All Modification Items)													
OTHER GOVT	- / 2.670	- / 1.268	- / 0.114	- / 0.352	- / 0.790	- / 1.142	- / -	- / -	- / -	- / -	- / -	- / 5.194	
<i>Subtotal: Support</i>	- / 2.670	- / 1.268	- / 0.114	- / 0.352	- / 0.790	- / 1.142	- / -	- / -	- / -	- / -	- / -	- / 5.194	
Installation													
Modification Item 1 of 1: MQ-9 Field Mods													
	96 / 1.800	80 / 1.120	80 / 3.790	82 / 1.723	- / -	82 / 1.723	24 / -	- / -	- / -	- / -	- / -	362 / 8.433	
<i>Subtotal: Installation</i>	96 / 1.800	80 / 1.120	80 / 3.790	82 / 1.723	- / -	82 / 1.723	24 / -	- / -	- / -	- / -	- / -	362 / 8.433	
Total													
Total Cost (Procurement + Support + Installation)	148.564	19.868	5.334	2.843	5.068	7.911	-	-	-	-	-	181.677	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9152 / MQ-9 Field

Modification Item 1 of 1: MQ-9 Field Mods

Manufacturer Information

Manufacturer Name: General Atomics-ASI	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015	Jun 2016	Jan 2017				
Delivery Dates	Jun 2016	Jun 2017	Jan 2018				

Installation Information

Method of Implementation: Depot Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	96 / 1.800	80 / 1.120	78 / 3.696	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	254 / 6.616
FY 2015	- / -	- / -	2 / 0.094	26 / 1.318	- / -	26 / 1.318	- / -	- / -	- / -	- / -	- / -	28 / 1.412
FY 2016	- / -	- / -	- / -	8 / 0.405	- / -	8 / 0.405	- / -	- / -	- / -	- / -	- / -	8 / 0.405
FY 2017	- / -	- / -	- / -	48 / -	- / -	48 / -	24 / -	- / -	- / -	- / -	- / -	72 / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	96 / 1.800	80 / 1.120	80 / 3.790	82 / 1.723	- / -	82 / 1.723	24 / -	- / -	- / -	- / -	- / -	362 / 8.433

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	96	20	20	20	20	20	20	20	20	20	21	20	21	6	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	80	16	20	20	20	20	20	20	20	20	20	21	20	21	6	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS				Modification Number / Title: 9154 / Lynx SAR				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	33.432	24.907	25.317	-	25.317	27.239	14.048	-	-	-	124.943
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	33.432	24.907	25.317	-	25.317	27.239	14.048	-	-	-	124.943
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	33.432	24.907	25.317	-	25.317	27.239	14.048	-	-	-	124.943

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

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

Description:

This effort will retrofit 110 aircraft fielded with Lynx Block 20 Synthetic Aperture Radar (SAR) to the Block 20A SAR configuration and upgrade 139 aircraft already fitted with Block 20A SAR from the -0001 configuration to the current configuration. The Lynx Block 20A SAR will enhance fielded capability, improve reliability and maintainability, provide ability to locate and track dismounted targets, allow for future growth of capabilities, and resolve Diminishing Manufacturing Source (DMS) issues with the fielded Lynx Block 20 SARs.

Requirement for this modification is validated in the MQ-9 Capability Production Document dated 8 August 2006.

This program supports all efforts to field the Lynx SAR capability.

This program will revise quantities based on updated user requirements and as funding permits.

As the Lynx SAR Block 20A Radar retrofit is the cost driver in this modification, the 110 20A retrofits are what is shown in the schedule section of this P-3A.

Milestone/Development Status

Lynx Block 20A SAR has completed development. The initial Dismount Moving Target Indicator (DMTI) software was released in Jun 11 and began characterization during manned surrogate flights in Aug/Sep 11. The DMTI software finished Development Testing in December 2013 with fielding anticipated in April 2016.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS					Modification Number / Title: 9154 / Lynx SAR			
Models of Systems Affected: MQ-9				Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0205219F	- / -	- / 141.528	- / 141.528	- / 122.731	- / 151.373	- / 274.104	- / 156.638	- / 152.991	- / 163.482	- / -	- / -	- / 1,030.271	
Procurement													
<i>Modification Item 1 of 1: Lynx SAR</i>													
A Kits													
Recurring													
Lynx SAR:INSTALL KITS Group A (Active)	- / -	24 / 3.128	24 / 2.437	24 / 2.513	- / -	24 / 2.513	24 / 2.590	14 / 1.332	- / -	- / -	- / -	110 / 12.000	
<i>Subtotal: Recurring</i>	- / -	- / 3.128	- / 2.437	- / 2.513	- / -	- / 2.513	- / 2.590	- / 1.332	- / -	- / -	- / -	- / 12.000	
B Kits													
Recurring													
Lynx SAR:EQUIPMENT Group B (Active)	- / -	24 / 28.152	24 / 21.933	24 / 22.617	- / -	24 / 22.617	24 / 23.310	14 / 11.988	- / -	- / -	- / -	110 / 108.000	
<i>Subtotal: Recurring</i>	- / -	- / 28.152	- / 21.933	- / 22.617	- / -	- / 22.617	- / 23.310	- / 11.988	- / -	- / -	- / -	- / 108.000	
<i>Subtotal: Lynx SAR</i>	- / -	- / 31.280	- / 24.370	- / 25.130	- / -	- / 25.130	- / 25.900	- / 13.320	- / -	- / -	- / -	- / 120.000	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 31.280	- / 24.370	- / 25.130	- / -	- / 25.130	- / 25.900	- / 13.320	- / -	- / -	- / -	- / 120.000	
Support (All Modification Items)													
OTHER GOVT	- / -	- / 2.152	- / 0.537	- / 0.187	- / -	- / 0.187	- / 1.339	- / 0.728	- / -	- / -	- / -	- / 4.943	
<i>Subtotal: Support</i>	- / -	- / 2.152	- / 0.537	- / 0.187	- / -	- / 0.187	- / 1.339	- / 0.728	- / -	- / -	- / -	- / 4.943	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	33.432	24.907	25.317	-	25.317	27.239	14.048	-	-	-	124.943	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9154 / Lynx SAR
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Modification Item 1 of 1: Lynx SAR

Manufacturer Information

Manufacturer Name: General Atomics-ASI	Manufacturer Location: Poway, CA
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Administrative Leadtime (<i>in Months</i>): 2	Production Leadtime (<i>in Months</i>): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018		
Delivery Dates	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019		

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9155 / GCS Blk 30
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	61.733	22.380	11.012	14.717	-	14.717	-	-	-	-	-	109.842
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	61.733	22.380	11.012	14.717	-	14.717	-	-	-	-	-	109.842
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	61.733	22.380	11.012	14.717	-	14.717	-	-	-	-	-	109.842

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

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

Description:

The Ground Control Station (GCS) Block 30 modernization retrofit program upgrades the Fixed and Mobile GCS with new Linux processors, high definition displays, ergonomic improvements and added Predator Primary Data Link (PPDL) and 2nd ARC-210 radio capabilities. Through an incremental approach, GCS modernization retrofits the legacy system with user-prioritized capabilities, to include significant Human-Machine Interface (HMI) improvements and reliability and maintenance enhancements. Unit costs vary due to the mix of fixed and mobile retrofits, which have varying costs.

Requirement for this modification is validated in the MQ-9 Capability Production Document dated 8 August 2006.

The GCS Block 30 Modification requirements changed such that the prior purchase of 108 Kits were no longer required as purchased. Modifications to these kits and the program in total created the current requirement of 45 kits as reflected in this document. Any remaining kits will be repurposed as GFE/Spares to meet operational needs.

This modification supports all efforts required to field the Block 30 GCS capability and will revise quantities based upon user requirements and available funding.

Milestone/Development Status

GCS Block 30 Critical Design Review completed Apr 11.

Test and evaluation was completed Jun 13

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS					Modification Number / Title: 9155 / GCS Blk 30			
Models of Systems Affected: MQ-9				Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0205219F	- / 817.828	- / 141.528	- / 122.731	- / 151.373	- / -	- / 151.373	- / 156.708	- / 153.047	- / 163.482	- / 166.382	- / -	- / 1,873.079	
Procurement													
<i>Modification Item 1 of 1: GCS Block 30</i>													
A Kits													
Recurring													
GCS Block 30:INSTALL KITS Group A (Active)	0 / 6.417	15 / 0.419	12 / 0.215	18 / 0.281	- / -	18 / 0.281	- / -	- / -	- / -	- / -	- / -	45 / 7.332	
<i>Subtotal: Recurring</i>	- / 6.417	- / 0.419	- / 0.215	- / 0.281	- / -	- / 0.281	- / -	- / -	- / -	- / -	- / -	- / 7.332	
B Kits													
Recurring													
GCS Block 30:EQUIPMENT Group B (Active)	0 / 53.859	15 / 3.771	12 / 1.935	18 / 2.529	- / -	18 / 2.529	- / -	- / -	- / -	- / -	- / -	45 / 62.094	
<i>Subtotal: Recurring</i>	- / 53.859	- / 3.771	- / 1.935	- / 2.529	- / -	- / 2.529	- / -	- / -	- / -	- / -	- / -	- / 62.094	
<i>Subtotal: GCS Block 30</i>	- / 60.276	- / 4.190	- / 2.150	- / 2.810	- / -	- / 2.810	- / -	- / -	- / -	- / -	- / -	- / 69.426	
<i>Subtotal: Procurement, All Modification Items</i>	- / 60.276	- / 4.190	- / 2.150	- / 2.810	- / -	- / 2.810	- / -	- / -	- / -	- / -	- / -	- / 69.426	
Support (All Modification Items)													
Change Orders	- / 1.210	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.210	
OTHER GOVT	- / 0.247	- / 1.440	- / 0.242	- / 0.667	- / -	- / 0.667	- / -	- / -	- / -	- / -	- / -	- / 2.596	
<i>Subtotal: Support</i>	- / 1.457	- / 1.440	- / 0.242	- / 0.667	- / -	- / 0.667	- / -	- / -	- / -	- / -	- / -	- / 3.806	
Installation													
<i>Modification Item 1 of 1: GCS Block 30</i>	- / -	15 / 16.750	12 / 8.620	18 / 11.240	- / -	18 / 11.240	- / -	- / -	- / -	- / -	- / -	45 / 36.610	
<i>Subtotal: Installation</i>	- / -	15 / 16.750	12 / 8.620	18 / 11.240	- / -	18 / 11.240	- / -	- / -	- / -	- / -	- / -	45 / 36.610	
Total													
Total Cost (Procurement + Support + Installation)	61.733	22.380	11.012	14.717	-	14.717	-	-	-	-	-	109.842	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9155 / GCS Blk 30

Modification Item 1 of 1: GCS Block 30

Manufacturer Information

Manufacturer Name: General Atomics-ASI	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016				
Delivery Dates	Mar 2015	Mar 2016	Mar 2017				

Installation Information

Method of Implementation: Depot Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	15 / 16.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 16.750
FY 2016	- / -	- / -	12 / 8.620	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 8.620
FY 2017	- / -	- / -	- / -	18 / 11.240	- / -	18 / 11.240	- / -	- / -	- / -	- / -	- / -	18 / 11.240
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	15 / 16.750	12 / 8.620	18 / 11.240	- / -	18 / 11.240	- / -	- / -	- / -	- / -	- / -	45 / 36.610

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	5	5	5	-	4	4	4	-	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45
Out	0	-	-	5	5	5	-	4	4	4	-	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS					Modification Number / Title: 9159 / R&M enhancements		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.241	27.241	32.210	6.256	-	6.256	2.179	2.320	2.337	1.684	30.811	114.279
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.241	27.241	32.210	6.256	-	6.256	2.179	2.320	2.337	1.684	30.811	114.279
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.241	27.241	32.210	6.256	-	6.256	2.179	2.320	2.337	1.684	30.811	114.279

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	2.080	2.080
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The purpose of this effort is to enable reliability and maintainability (R&M) modification for the MQ-9 aircraft, sensor payloads, Ground Control Station (GCS), and Primary Mission Aircrew Training System (PMATS) to improve component mean time between failure and maintenance action rate requirements driving down system sustainability cost over time. Current examples include, but are not limited to, improved fuel bladders, fuel pumps, and wing sump boxes, and, potentially, improved oil system sampling, new battery junction box, angle of attack probe, Ruggedized Aircraft Maintenance Test System (RAMTS) and improved power inverter. This effort address R&M issues identified by the Joint Reliability and Maintainability Evaluation Team (JRMET) and CAT I deficiency reports.

Requirement for this modification is validated in the MQ-9 Capability Production Document dated 8 August 2006. The quantity of aircraft for each Blk 1 & Blk 5 modifications varies depending on when the capability was cut into production. The ESIP modification the program office will be modifying the remaining 170 Blk 1 aircraft through FY17. In FY18 and out, the R&M funding will be used to conduct other R&M modifications as required and quantities will vary based on funding and user requirements.

Under this effort the contractor will provide for the manufacture, installation, and acceptance test of reliability and maintainability modification on MQ-9 aircraft and ground based systems.

ESIP (DDBA) costs are included in the R&M quantities as these are a current requirement to ensure the Reliability of the MQ-9 fleet. For the ESIP modification the program office will be modifying 170 Block 1 aircraft.

Milestone/Development Status

The MQ-9 program will continue to develop, test and recommend reliability, maintainability, availability, sustainability and safety enhancements and solutions for implementation on the MQ-9 platform and ground based systems in an effort to improve aircraft and payload availability and reduce lifecycle costs.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS					Modification Number / Title: 9159 / R&M enhancements			
Models of Systems Affected: MQ-9				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0205219F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0205219F	- / 817.828	- / 141.528	- / 122.731	- / 151.373	- / -	- / 151.373	- / 156.708	- / 153.047	- / 163.482	- / 166.382	- / -	- / 1,873.079	
Procurement													
Modification Item 1 of 1: R&M Enhancements													
A Kits													
Recurring													
R&M Enhancements:INSTALL KITS Group A (Active)	40 / 0.842	50 / 2.536	64 / 3.148	16 / 0.590	- / -	16 / 0.590	- / 0.198	- / 0.211	- / 0.217	- / 0.158	- / 2.787	170 / 10.687	
<i>Subtotal: Recurring</i>	- / 0.842	- / 2.536	- / 3.148	- / 0.590	- / -	- / 0.590	- / 0.198	- / 0.211	- / 0.217	- / 0.158	- / 2.787	- / 10.687	
B Kits													
Recurring													
R&M Enhancements:EQUIPMENT Group B (Active)	40 / 7.578	50 / 22.821	64 / 28.332	16 / 5.310	- / -	16 / 5.310	- / 1.782	- / 1.899	- / 1.953	- / 1.422	- / 25.083	170 / 96.180	
<i>Subtotal: Recurring</i>	- / 7.578	- / 22.821	- / 28.332	- / 5.310	- / -	- / 5.310	- / 1.782	- / 1.899	- / 1.953	- / 1.422	- / 25.083	- / 96.180	
<i>Subtotal: R&M Enhancements</i>	- / 8.420	- / 25.357	- / 31.480	- / 5.900	- / -	- / 5.900	- / 1.980	- / 2.110	- / 2.170	- / 1.580	- / 27.870	- / 106.867	
<i>Subtotal: Procurement, All Modification Items</i>	- / 8.420	- / 25.357	- / 31.480	- / 5.900	- / -	- / 5.900	- / 1.980	- / 2.110	- / 2.170	- / 1.580	- / 27.870	- / 106.867	
Support (All Modification Items)													
OTHER GOVT	- / 0.821	- / 1.884	- / 0.730	- / 0.356	- / -	- / 0.356	- / 0.199	- / 0.210	- / 0.167	- / 0.104	- / 2.941	- / 7.412	
<i>Subtotal: Support</i>	- / 0.821	- / 1.884	- / 0.730	- / 0.356	- / -	- / 0.356	- / 0.199	- / 0.210	- / 0.167	- / 0.104	- / 2.941	- / 7.412	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	9.241	27.241	32.210	6.256	-	6.256	2.179	2.320	2.337	1.684	30.811	114.279	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9159 / R&M enhancements
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Modification Item 1 of 1: R&M Enhancements

Manufacturer Information

Manufacturer Name: General Atomics ASI	Manufacturer Location: Poway CA
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Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 170
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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS				Modification Number / Title: 9164 / Extended Range MQ-9				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	83.610	48.278	102.189	39.262	-	39.262	48.977	12.035	-	-	-	334.351
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	83.610	48.278	102.189	39.262	-	39.262	48.977	12.035	-	-	-	334.351
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	83.610	48.278	102.189	39.262	-	39.262	48.977	12.035	-	-	-	334.351

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

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

Description:

This program adds extended range (ER) and endurance capability to the MQ-9 Block 1 aircraft only. Candidate aircraft modifications include, but are not limited to, external fuel tanks, shipping containers, engine modifications, fuel system modifications, 4-blade propeller, and software modifications. Current plan is to modify all MQ-9 aircraft to Extended Range configuration. This program will revise quantities based upon updated user requirements and available funding. MQ-9 Block 5 ER modification kits are funded in the Block 5 modification (9151) document.

The Extended Range (ER) modification the program office will be modifying 166 aircraft per the users identified requirements for Block 1.

Requirement for this modification was validated by the Chairman of the Joint Chiefs of Staff in conjunction with the Warfighter Senior Integration Group in response to an urgent operational need.

FY15 installs were funded with prior year funding to respond to a Joint Urgent Operational Need (JUON).

FY16 OCO funds (\$69.000m) procure and install 36 Block 1 aircraft Extended Range kits; although installation is funded with FY16 OCO, actual installation will be in FY17.

Milestone/Development Status

The Air Force delivered 38 modified Block 1 ER aircraft by March 2015 to meet a Joint Urgent Operational Need (JUON). The remaining Block 1 aircraft are programmed to be modified to ER configuration.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS					Modification Number / Title: 9164 / Extended Range MQ-9			
Models of Systems Affected: MQ-9				Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0205219F	- / 817.828	- / 141.528	- / 122.731	- / 151.373	- / -	- / 151.373	- / 156.798	- / 153.047	- / 163.482	- / 166.382	- / -	- / 1,873.169	
Procurement													
Modification Item 1 of 1: Extended Range MQ-9													
A Kits													
Recurring													
Extended Range MQ-9:INSTALL KITS Group A (Active)	49 / 6.344	23 / 4.517	48 / 6.852	23 / 3.658	- / -	23 / 3.658	23 / 3.499	- / -	- / -	- / -	- / -	166 / 24.870	
<i>Subtotal: Recurring</i>	- / 6.344	- / 4.517	- / 6.852	- / 3.658	- / -	- / 3.658	- / 3.499	- / -	- / -	- / -	- / -	- / 24.870	
B Kits													
Recurring													
Extended Range MQ-9:EQUIPMENT Group B (Active)	49 / 57.096	23 / 40.653	48 / 61.668	23 / 32.922	- / -	23 / 32.922	23 / 31.491	- / -	- / -	- / -	- / -	166 / 223.830	
<i>Subtotal: Recurring</i>	- / 57.096	- / 40.653	- / 61.668	- / 32.922	- / -	- / 32.922	- / 31.491	- / -	- / -	- / -	- / -	- / 223.830	
<i>Subtotal: Extended Range MQ-9</i>	- / 63.440	- / 45.170	- / 68.520	- / 36.580	- / -	- / 36.580	- / 34.990	- / -	- / -	- / -	- / -	- / 248.700	
<i>Subtotal: Procurement, All Modification Items</i>	- / 63.440	- / 45.170	- / 68.520	- / 36.580	- / -	- / 36.580	- / 34.990	- / -	- / -	- / -	- / -	- / 248.700	
Support (All Modification Items)													
OTHER GOVT	- / 4.660	- / 3.108	- / 2.239	- / 2.682	- / -	- / 2.682	- / 2.407	- / 0.595	- / -	- / -	- / -	- / 15.691	
<i>Subtotal: Support</i>	- / 4.660	- / 3.108	- / 2.239	- / 2.682	- / -	- / 2.682	- / 2.407	- / 0.595	- / -	- / -	- / -	- / 15.691	
Installation													
Modification Item 1 of 1: Extended Range MQ-9	46 / 15.510	3 / -	23 / 31.430	36 / -	- / -	36 / -	35 / 11.580	23 / 11.440	- / -	- / -	- / -	166 / 69.960	
<i>Subtotal: Installation</i>	46 / 15.510	3 / -	23 / 31.430	36 / -	- / -	36 / -	35 / 11.580	23 / 11.440	- / -	- / -	- / -	166 / 69.960	
Total													
Total Cost (Procurement + Support + Installation)	83.610	48.278	102.189	39.262	-	39.262	48.977	12.035	-	-	-	334.351	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9164 / Extended Range MQ-9

Modification Item 1 of 1: Extended Range MQ-9

Manufacturer Information

Manufacturer Name: General Atomics - ASI	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 8

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018			
Delivery Dates	Sep 2015	Sep 2016	Sep 2017	Sep 2018			

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	46 / 15.510	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 15.510
FY 2015	- / -	- / -	23 / 10.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 10.182
FY 2016	- / -	- / -	- / 21.248	36 / -	- / -	36 / -	12 / 3.970	- / -	- / -	- / -	- / -	48 / 25.218
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	23 / 7.610	- / -	- / -	- / -	- / -	23 / 7.610
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 11.440	- / -	- / -	- / -	23 / 11.440
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	46 / 15.510	3 / -	23 / 31.430	36 / -	- / -	36 / -	35 / 11.580	23 / 11.440	- / -	- / -	- / -	166 / 69.960

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	46	3	-	-	-	5	5	6	7	9	9	9	9	9	9	9	8	6	6	6	5	-	-	-	-	-	-	-	-	-	-
Out	34	12	3	-	-	-	5	5	6	7	9	9	9	9	9	9	9	8	6	6	6	5	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS			Modification Number / Title: 9167 / MQ-9 Upgrade				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	29.740	107.000	136.740	75.130	97.899	77.122	67.834	1,577.218	2,031.943
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	29.740	107.000	136.740	75.130	97.899	77.122	67.834	1,577.218	2,031.943
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	29.740	107.000	136.740	75.130	97.899	77.122	67.834	1,577.218	2,031.943

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

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

Description:

This program, P-3A Mod 9167, MQ-9 Upgrade, is a new start.

The MQ-9 Reaper Update Program is an effort to field new capabilities in the MQ-9 fleet. This program integrates the approved MQ-9 Hybrid Acquisition Strategy capability Releases 3 and out into the MQ-9 Unmanned Aircraft System and retrofits those capabilities into the MQ-9 aircraft and the Ground Control Stations. Although the content of the Releases may change in response to changing mission requirements, at this time Releases 3 and 4 include, but are not limited to, adding high definition electro-optical/infra-red imagery with the DAS-4 sensor, repositioning Airhandler equipment from the payload tray into "cheeks" on the MQ-9 Block 5 fuselage, implementing VORTEX Phase II, replacing the GPS with a differential GPS, implementing an Autonomous Systems upgrade, upgrading the datalinks to use the new Bandwidth Efficient Common Data Link (BE-CDL), enhancing the Joint Direct Attack Munition (JDAM) Targeting capability, implementing the results of the Technology Insertion program and fielding of the hardware and software required to separate the payload software from the operational flight program (OFP) software to enable fielding of new sensors and weapons without requiring changes in the OFP.

Requirement for this modification is validated in the MQ-9 Capability Production Document dated 8 August 2006.

This program will revise quantities based on updated user requirements and as funding permits.

There are multiple capabilities (within each element of the P-3A) being added to the a/c thus the quantities are overstated. Each element will be installed based upon fleet requirements to get to a baseline for that specific capability release.

The quantity of aircraft for each Block 5 modification varies depending on when the capability was cut into production. For the DAS-4 retrofit, the program will modify 169 Block 1 and the remaining 68 Block 5 aircraft delivered without DAS-4. For the Hybrid Release retrofit, the program will modify the entire Block 5 fleet of 148.

Various components of the releases include, but are not limited to, the following: DAS-4 ,Technology Insertion, VORTEX Ph II, BE-CDL, AH Cheeks, Differential GPS, Auto Takeoff and Landing, JDAM Targeting, GSC Block 50 Tech Refresh, Flight Payload Separation.

FY17 OCO includes \$107.0m for 53 DAS-4 upgrades.

Milestone/Development Status

Release 3 Contract award is currently scheduled for award in 1Q 2019.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS						Modification Number / Title: 9167 / MQ-9 Upgrade		
Models of Systems Affected: MQ-9				Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
RDT&E PE #												
0205219F	- / -	- / -	- / -	- / 151.373	- / -	- / 151.373	- / 156.708	- / 153.047	- / 163.482	- / 166.382	- / -	- / 1790.992
Procurement												
Modification Item 1 of 2: DAS-4 EO/IR Sensor												
A Kits												
Recurring												
DAS-4 EO/IR Sensor:INSTALL KITS Group A (Active)	- / -	- / -	- / -	1 / 2.001	53 / 10.700	54 / 12.701	29 / 7.019	35 / 8.717	22 / 5.638	8 / 2.110	90 / 24.151	238 / 60.336
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 2.001	- / 10.700	- / 12.701	- / 7.019	- / 8.717	- / 5.638	- / 2.110	- / 24.151	- / 60.336
B Kits												
Recurring												
DAS-4 EO/IR Sensor:EQUIPMENT Group B (Active)	- / -	- / -	- / -	1 / 18.009	53 / 96.300	54 / 114.309	29 / 63.171	35 / 78.453	22 / 50.742	8 / 18.990	90 / 217.359	238 / 543.024
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 18.009	- / 96.300	- / 114.309	- / 63.171	- / 78.453	- / 50.742	- / 18.990	- / 217.359	- / 543.024
<i>Subtotal: DAS-4 EO/IR Sensor</i>	- / -	- / -	- / -	- / 20.010	- / 107.000	- / 127.010	- / 70.190	- / 87.170	- / 56.380	- / 21.100	- / 241.510	- / 603.360
Modification Item 2 of 2: Hybrid Acq Strategy												
A Kits												
Recurring												
Hybrid Acq Strategy:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.356	24 / 1.749	24 / 3.805	271 / 101.838	331 / 107.748
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.356	- / 1.749	- / 3.805	- / 101.838	- / 107.748
B Kits												
Recurring												
Hybrid Acq Strategy:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 3.204	24 / 15.741	24 / 34.245	271 / 916.542	331 / 969.732
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.204	- / 15.741	- / 34.245	- / 916.542	- / 969.732
<i>Subtotal: Hybrid Acq Strategy</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.560	- / 17.490	- / 38.050	- / 1,018.380	- / 1,077.480
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 20.010	- / 107.000	- / 127.010	- / 70.190	- / 90.730	- / 73.870	- / 59.150	- / 1,259.890	- / 1,680.840
Support (All Modification Items)												
OTHER GOVT												
	- / -	- / -	- / -	- / 19.730	- / -	- / 19.730	- / 14.940	- / 17.169	- / 1.872	- / 4.744	- / 165.998	- / 194.453
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 19.730	- / -	- / 19.730	- / 14.940	- / 17.169	- / 1.872	- / 4.744	- / 165.998	- / 194.453
Installation												
Modification Item 2 of 2: Hybrid Acq Strategy												
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.380	24 / 3.940	295 / 151.330	331 / 156.650
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.380	24 / 3.940	295 / 151.330	331 / 156.650
Total												

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Exhibit P-3a, Individual Modification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9167 / MQ-9 Upgrade
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Models of Systems Affected: MQ-9 **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0205219F

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total Cost (Procurement + Support + Installation)	-	-	-	29.740	107.000	136.740	75.130	97.899	77.122	67.834	1,577.218	2,031.943

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9167 / MQ-9 Upgrade
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Modification Item 1 of 2: DAS-4 EO/IR Sensor

Manufacturer Information

Manufacturer Name: General Atomics, ASI	Manufacturer Location: Poway, CA
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 10
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021
Delivery Dates			Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9167 / MQ-9 Upgrade

Modification Item 2 of 2: Hybrid Acq Strategy

Manufacturer Information

Manufacturer Name: General Atomics, ASI	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Jan 2019	Jan 2020	Jan 2021
Delivery Dates					Nov 2019	Nov 2020	Nov 2021

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.380	- / -	- / -	12 / 1.380
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 3.940	- / -	24 / 3.940
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 7.500	24 / 7.500
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	271 / 143.830	271 / 143.830
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.380	24 / 3.940	295 / 151.330	331 / 156.650

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	6	6	6	6	295	331
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	6	6	6	6	295	331

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: V02200 / CV-22 MODS
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0401318F
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Line Item MDAP/MAIS Code: 212	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	70.406	74.874	58.603	63.395	-	63.395	65.892	68.843	70.825	72.131	345.301	890.270
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	70.406	74.874	58.603	63.395	-	63.395	65.892	68.843	70.825	72.131	345.301	890.270
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	70.406	74.874	58.603	63.395	-	63.395	65.892	68.843	70.825	72.131	345.301	890.270

(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 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. The CV-22 program of record is 51 aircraft, 46 of which have been delivered into service. The design service life for the aircraft is 10,000 flying hours over 30 years. CV-22 aircraft deliveries began in September 2005, and are planned to conclude in October 2019. As of 30 November 2015, the CV-22 fleet had accumulated approximately 52,814 flying hours.

Funding for this exhibit contained in PE 0401318F.

The primary modification budgeted in FY17 is the Block C/20 Upgrade.

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
V02200 / CV-22 MODS

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

Line Item MDAP/MAIS Code: 212 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	99999X / Low Cost Modifications (Other)			- / 12.015	- / 1.999	- / 1.999	- / 1.999	- / -	- / 1.999
P-3a	8790 / Block 20 Upgrade (Capability Improvement)			- / 58.391	- / 72.875	- / 56.604	- / 61.396	- / -	- / 61.396
P-40	Total Gross/Weapon System Cost			- / 70.406	- / 74.874	- / 58.603	- / 63.395	- / -	- / 63.395

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / 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***	99999X / Low Cost Modifications (Other)			- / 1.999	- / 1.999	- / 1.999	- / 1.999	- / 11.994	- / 38.002
P-3a	8790 / Block 20 Upgrade (Capability Improvement)			- / 63.893	- / 66.844	- / 68.826	- / 70.132	- / 333.307	- / 852.268
P-40	Total Gross/Weapon System Cost			- / 65.892	- / 68.843	- / 70.825	- / 72.131	- / 345.301	- / 890.270

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: V02200 / CV-22 MODS				Modification Number / Title: 8790 / Block 20 Upgrade				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	58.391	72.875	56.604	61.396	-	61.396	63.893	66.844	68.826	70.132	333.307	852.268
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	58.391	72.875	56.604	61.396	-	61.396	63.893	66.844	68.826	70.132	333.307	852.268
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	58.391	72.875	56.604	61.396	-	61.396	63.893	66.844	68.826	70.132	333.307	852.268
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	3.676	2.731	0.882	-	0.882	0.241	-	-	-	-	7.530
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This modification funds the retrofit of fielded CV-22 aircraft, flight training systems, and systems integration laboratories to the Block C/20 configuration. This modification encompasses numerous engineering change proposals (ECP) that have, or will be placed on contract to address a variety of CV-22 weapon system requirements. This modification implements production kits and other equipment resulting from related RDT&E projects in the CV-22 program, including the core Block C/20, enhanced self-deployment, improved inlet solution (IIS), communication, navigation, surveillance / air traffic management (CNS/ATM), and planned aircraft electrical power development efforts. The requirements basis for this modification is the September 2010 joint V-22 Block C/20 Capability Production Document.

The Block C/20 modification program is being implemented in several increments and includes, but is not limited to efforts that improve operational safety, suitability, and effectiveness, correct deficiencies identified during operational testing and/or field operations, improve aircraft reliability/maintainability, enhance the aircraft's self-deployment capability, enable unrestricted access to worldwide airspace, and enhance aircraft survivability and the effectiveness of aircraft defensive avionics systems. Each increment includes multiple different ECPs/kits, and each ECP/kit has a unique production and installation time line. Whenever possible, ECPs/kits are installed in batches to minimize aircraft down time. Some ECPs/kits are being incorporated on aircraft as they progress through the production line. Most, however, will be retrofitted on fielded aircraft by a variety of means. A total of 1,620 kits will be retrofitted under the Block C/20 modification, of which 912 require depot level installation. Individual P-3As indicate which modifications are implemented at the depot level, and the installation schedules reflect only these depot level installs. The remaining 772 kits will be installed by organizational level maintenance personnel.

The first increment is expected to retrofit 34 aircraft and expected to include, but is not limited to implementing MV-22 Block C modifications on CV-22 aircraft, and the communications co-site interference modification. These kits will be purchased in FY2011 to FY2017, with installations in FY2013 through FY2018. The second increment retrofits 43 aircraft and includes, but is not limited to various communications, situational awareness, and software upgrades. These kits will be purchased in FY2013 through FY2019, with installations in FY2014 through FY2020. The final increment will apply to the entire inventory of 51 aircraft and includes, but is not limited to improvements to various air vehicle and avionics systems/components, communication and navigation systems, and aircraft propulsion systems. These kits will be purchased in FY2015 through FY2022, with installations in FY2016 through FY2024. This modification also includes funding to upgrade aircraft support equipment, training devices, and flight simulators.

The CV-22 platform has diminishing manufacturing source (DMS) issues and funding is included in this modification program for DMS resolution. This modification also includes funding to upgrade CV-22 aircraft software components. Funding for DMS, flight test support, and software is included in the A-kit nonrecurring engineering cost category.

Milestone/Development Status

CV-22 program RDT&E funding in PE 0401318F provides for development and testing activities associated with the Block C/20 modification. The core Block C/20 development effort was awarded in December 2007 and is expected to complete in December 2016. Additional ECPs have since been added under the Block C/20 umbrella, including the enhanced self-deployment, Improved Inlet Solution (IIS), and Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) projects.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
<p>Development activities for the enhanced self-deployment major thrust encompass a number of different requirements in various stages of analysis, development, and testing.</p> <p>The IIS project was initiated in FY2014. A preliminary design review and critical design review (CDR) were accomplished in FY2015. Post-CDR development efforts continue in FY2016 and FY2017. Ground and flight testing are planned in the FY2017-2018 timeframe.</p> <p>Development efforts for the CNS/ATM project begin in FY2017 and are planned to complete in FY2019. Ground and flight testing are planned in the FY2019-FY2021 timeframe.</p> <p>Development efforts for aircraft electrical power system improvements are planned in future years.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: V02200 / CV-22 MODS					Modification Number / Title: 8790 / Block 20 Upgrade			
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 36: AC Bus Tie Impr													
A Kits													
Recurring													
AC Bus Tie Impr:INSTALL KITS Group A (Active)	- / -	11 / 0.052	11 / 0.053	11 / 0.053	- / -	11 / 0.053	- / -	- / -	- / -	- / -	- / -	33 / 0.158	
<i>Subtotal: Recurring</i>	- / -	- / 0.052	- / 0.053	- / 0.053	- / -	- / 0.053	- / -	- / -	- / -	- / -	- / -	- / 0.158	
<i>Subtotal: AC Bus Tie Impr</i>	- / -	- / 0.052	- / 0.053	- / 0.053	- / -	- / 0.053	- / -	- / -	- / -	- / -	- / -	- / 0.158	
Modification Item 2 of 36: Advanced Multifunctional Display													
A Kits													
Recurring													
Advanced Multifunctional Display:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.390	11 / 1.430	44 / 5.720	58 / 7.540	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.390	- / 1.430	- / 5.720	- / 7.540	
<i>Subtotal: Advanced Multifunctional Display</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.390	- / 1.430	- / 5.720	- / 7.540	
Modification Item 3 of 36: Advanced Threat Warning System													
A Kits													
Recurring													
Advanced Threat Warning System:INSTALL KITS Group A (Active)	- / -	10 / 1.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	41 / 4.921	51 / 5.971	
<i>Subtotal: Recurring</i>	- / -	- / 1.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.921	- / 5.971	
B Kits													
Recurring													
Advanced Threat Warning System:EQUIPMENT Group B (Active)	- / -	10 / 10.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	41 / 50.855	51 / 61.705	
<i>Subtotal: Recurring</i>	- / -	- / 10.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 50.855	- / 61.705	
<i>Subtotal: Advanced Threat Warning System</i>	- / -	- / 11.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 55.776	- / 67.676	
Modification Item 4 of 36: Auto Dependent Surveillance-Broadcast ADSB/Out													
A Kits													
Recurring													
Auto Dependent Surveillance-Broadcast ADSB/Out:INSTALL KITS Group A (Active)	- / -	- / -	- / -	12 / 0.816	- / -	12 / 0.816	13 / 0.946	13 / 0.969	13 / 1.000	- / -	- / -	51 / 3.731	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.816	- / -	- / 0.816	- / 0.946	- / 0.969	- / 1.000	- / -	- / -	- / 3.731	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: V02200 / CV-22 MODS					Modification Number / Title: 8790 / Block 20 Upgrade			
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<i>Subtotal: Auto Dependent Surveillance-Broadcast ADSB/Out</i>	- / -	- / -	- / -	- / 0.816	- / -	- / 0.816	- / 0.946	- / 0.969	- / 1.000	- / -	- / -	- / 3.731	
Modification Item 5 of 36: Data Transfer Unit Upgrade													
A Kits													
Recurring													
Data Transfer Unit Upgrade:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.045	11 / 0.165	11 / 0.165	11 / 0.165	22 / 0.330	58 / 0.870	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.045	- / 0.165	- / 0.165	- / 0.165	- / 0.330	- / 0.870	
<i>Subtotal: Data Transfer Unit Upgrade</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.045	- / 0.165	- / 0.165	- / 0.165	- / 0.330	- / 0.870	
Modification Item 6 of 36: Digital Interoperability Improvement Kits													
A Kits													
Recurring													
Digital Interoperability Improvement Kits:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 51.836	51 / 51.836	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.836	- / 51.836	
<i>Subtotal: Digital Interoperability Improvement Kits</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.836	- / 51.836	
Modification Item 7 of 36: ECP 1001 Gimbal Ring Joint Redesign Kits													
A Kits													
Recurring													
ECP 1001 Gimbal Ring Joint Redesign Kits:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.420	12 / 0.504	12 / 0.504	12 / 0.504	5 / 0.210	51 / 2.142	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.420	- / 0.504	- / 0.504	- / 0.504	- / 0.210	- / 2.142	
<i>Subtotal: ECP 1001 Gimbal Ring Joint Redesign Kits</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.420	- / 0.504	- / 0.504	- / 0.504	- / 0.210	- / 2.142	
Modification Item 8 of 36: ECP 1020 Rudder Reliability Kits													
A Kits													
Recurring													
ECP 1020 Rudder Reliability Kits:INSTALL KITS Group A (Active)	12 / 0.028	- / -	12 / 0.024	10 / 0.020	- / -	10 / 0.020	13 / 0.026	- / -	- / -	- / -	- / -	47 / 0.098	
<i>Subtotal: Recurring</i>	- / 0.028	- / -	- / 0.024	- / 0.020	- / -	- / 0.020	- / 0.026	- / -	- / -	- / -	- / -	- / 0.098	
<i>Subtotal: ECP 1020 Rudder Reliability Kits</i>	- / 0.028	- / -	- / 0.024	- / 0.020	- / -	- / 0.020	- / 0.026	- / -	- / -	- / -	- / -	- / 0.098	
Modification Item 9 of 36: ECP 1041 BLOS Kits													
A Kits													

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: V02200 / CV-22 MODS					Modification Number / Title: 8790 / Block 20 Upgrade			
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Recurring													
ECP 1041 BLOS Kits:INSTALL KITS Group A (Active)	- / -	- / -	5 / 1.625	11 / 3.575	- / -	11 / 3.575	11 / 3.575	11 / 3.575	11 / 3.575	11 / 3.575	- / -	49 / 15.925	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 1.625	- / 3.575	- / -	- / 3.575	- / 3.575	- / 3.575	- / 3.575	- / 3.575	- / -	- / 15.925	
<i>Subtotal: ECP 1041 BLOS Kits</i>	- / -	- / -	- / 1.625	- / 3.575	- / -	- / 3.575	- / 3.575	- / 3.575	- / 3.575	- / 3.575	- / -	- / 15.925	
Modification Item 10 of 36: ECP 527R1 Emergency O2 Bottle Gauge Kits													
A Kits													
Recurring													
ECP 527R1 Emergency O2 Bottle Gauge Kits:INSTALL KITS Group A (Active)	19 / 0.006	19 / 0.015	4 / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 0.026	
<i>Subtotal: Recurring</i>	- / 0.006	- / 0.015	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.026	
<i>Subtotal: ECP 527R1 Emergency O2 Bottle Gauge Kits</i>	- / 0.006	- / 0.015	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.026	
Modification Item 11 of 36: ECP 866R1 Gen 5 Radio Kits													
A Kits													
Recurring													
ECP 866R1 Gen 5 Radio Kits:INSTALL KITS Group A (Active)	13 / 0.022	13 / 0.022	13 / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 0.066	
<i>Subtotal: Recurring</i>	- / 0.022	- / 0.022	- / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.066	
B Kits													
Recurring													
ECP 866R1 Gen 5 Radio Kits:EQUIPMENT Group B (Active)	13 / 4.551	13 / 3.931	13 / 4.927	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 13.409	
<i>Subtotal: Recurring</i>	- / 4.551	- / 3.931	- / 4.927	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.409	
<i>Subtotal: ECP 866R1 Gen 5 Radio Kits</i>	- / 4.573	- / 3.953	- / 4.949	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.475	
Modification Item 12 of 36: ECP 869 Nose Landing Gear													
A Kits													
Recurring													
ECP 869 Nose Landing Gear:INSTALL KITS Group A (Active)	14 / 0.091	- / -	2 / 0.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.104	
<i>Subtotal: Recurring</i>	- / 0.091	- / -	- / 0.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.104	
<i>Subtotal: ECP 869 Nose Landing Gear</i>	- / 0.091	- / -	- / 0.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.104	
Modification Item 13 of 36: ECP 873 MCOI Kits													
A Kits													

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Exhibit P-3a, Individual Modification: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: V02200 / CV-22 MODS				Modification Number / Title: 8790 / Block 20 Upgrade				
Models of Systems Affected: CV-22			Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Recurring												
ECP 873 MCOI Kits:INSTALL KITS Group A (Active)	- / -	8 / 3.808	- / -	13 / 5.468	- / -	13 / 5.468	11 / 4.796	11 / 4.796	5 / 2.180	- / -	- / -	48 / 21.048
Subtotal: Recurring	- / -	- / 3.808	- / -	- / 5.468	- / -	- / 5.468	- / 4.796	- / 4.796	- / 2.180	- / -	- / -	- / 21.048
Subtotal: ECP 873 MCOI Kits	- / -	- / 3.808	- / -	- / 5.468	- / -	- / 5.468	- / 4.796	- / 4.796	- / 2.180	- / -	- / -	- / 21.048
Modification Item 14 of 36: ECP 901 Blk C Kits												
A Kits												
Recurring												
ECP 901 Blk C Kits:INSTALL KITS Group A (Active)	15 / 10.487	6 / 4.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 14.765
Subtotal: Recurring	- / 10.487	- / 4.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.765
Subtotal: ECP 901 Blk C Kits	- / 10.487	- / 4.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.765
Modification Item 15 of 36: ECP 901 Co-Site Kits												
A Kits												
Recurring												
ECP 901 Co-Site Kits:INSTALL KITS Group A (Active)	18 / 9.083	8 / 4.098	4 / 2.300	4 / 2.300	- / -	4 / 2.300	- / -	- / -	- / -	- / -	- / -	34 / 17.781
Subtotal: Recurring	- / 9.083	- / 4.098	- / 2.300	- / 2.300	- / -	- / 2.300	- / -	- / -	- / -	- / -	- / -	- / 17.781
Subtotal: ECP 901 Co-Site Kits	- / 9.083	- / 4.098	- / 2.300	- / 2.300	- / -	- / 2.300	- / -	- / -	- / -	- / -	- / -	- / 17.781
Modification Item 16 of 36: ECP 901R2 Antenna Mounting Kits												
A Kits												
Recurring												
ECP 901R2 Antenna Mounting Kits:INSTALL KITS Group A (Active)	15 / 0.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.035
Subtotal: Recurring	- / 0.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.035
Subtotal: ECP 901R2 Antenna Mounting Kits	- / 0.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.035
Modification Item 17 of 36: ECP 901R2 Troop Commander Panel Kits												
A Kits												
Recurring												
ECP 901R2 Troop Commander Panel Kits:INSTALL KITS Group A (Active)	15 / 0.013	5 / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.018
Subtotal: Recurring	- / 0.013	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.018
Subtotal: ECP 901R2 Troop Commander Panel Kits	- / 0.013	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.018
Modification Item 18 of 36: ECP 906 Fuel Jettison Kits												
A Kits												

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: V02200 / CV-22 MODS					Modification Number / Title: 8790 / Block 20 Upgrade			
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Recurring													
ECP 906 Fuel Jettison Kits:INSTALL KITS Group A (Active)	26 / 10.208	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 10.208	
<i>Subtotal: Recurring</i>	- / 10.208	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.208	
<i>Subtotal: ECP 906 Fuel Jettison Kits</i>	- / 10.208	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.208	
Modification Item 19 of 36: ECP 915 Wiring Harness Kits													
A Kits													
Recurring													
ECP 915 Wiring Harness Kits:INSTALL KITS Group A (Active)	13 / 0.493	11 / 0.195	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.688	
<i>Subtotal: Recurring</i>	- / 0.493	- / 0.195	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.688	
<i>Subtotal: ECP 915 Wiring Harness Kits</i>	- / 0.493	- / 0.195	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.688	
Modification Item 20 of 36: ECP 922 Electrical Power Upgrade CFG/VFG													
A Kits													
Recurring													
ECP 922 Electrical Power Upgrade CFG/VFG:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.061	46 / 10.698	51 / 11.759	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.061	- / 10.698	- / 11.759	
<i>Subtotal: ECP 922 Electrical Power Upgrade CFG/VFG</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.061	- / 10.698	- / 11.759	
Modification Item 21 of 36: ECP 929 Drive Tube Kits													
A Kits													
Recurring													
ECP 929 Drive Tube Kits:INSTALL KITS Group A (Active)	- / -	- / -	6 / 0.254	8 / 0.339	- / -	8 / 0.339	8 / 0.339	8 / 0.339	8 / 0.339	8 / 0.339	5 / 0.212	51 / 2.161	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.254	- / 0.339	- / -	- / 0.339	- / 0.339	- / 0.339	- / 0.339	- / 0.339	- / 0.212	- / 2.161	
<i>Subtotal: ECP 929 Drive Tube Kits</i>	- / -	- / -	- / 0.254	- / 0.339	- / -	- / 0.339	- / 0.339	- / 0.339	- / 0.339	- / 0.339	- / 0.212	- / 2.161	
Modification Item 22 of 36: ECP 935 Mode 5 APX-119 Kits													
A Kits													
Recurring													
ECP 935 Mode 5 APX-119 Kits:INSTALL KITS Group A (Active)	13 / 0.698	12 / 0.753	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 1.451	
<i>Subtotal: Recurring</i>	- / 0.698	- / 0.753	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.451	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: V02200 / CV-22 MODS					Modification Number / Title: 8790 / Block 20 Upgrade			
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<i>Subtotal: ECP 935 Mode 5 APX-119 Kits</i>	- / 0.698	- / 0.753	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.451	
Modification Item 23 of 36: ECP 964 Cock Pit Voice Recorder Kits													
A Kits													
Recurring													
ECP 964 Cock Pit Voice Recorder Kits:INSTALL KITS Group A (Active)	5 / 0.160	- / -	11 / 0.389	11 / 0.242	- / -	11 / 0.242	11 / 0.242	10 / 0.220	- / -	- / -	- / -	48 / 1.253	
<i>Subtotal: Recurring</i>	- / 0.160	- / -	- / 0.389	- / 0.242	- / -	- / 0.242	- / 0.242	- / 0.220	- / -	- / -	- / -	- / 1.253	
<i>Subtotal: ECP 964 Cock Pit Voice Recorder Kits</i>	- / 0.160	- / -	- / 0.389	- / 0.242	- / -	- / 0.242	- / 0.242	- / 0.220	- / -	- / -	- / -	- / 1.253	
Modification Item 24 of 36: ECP 980 Swashplate Actuator Mod													
A Kits													
Recurring													
ECP 980 Swashplate Actuator Mod:INSTALL KITS Group A (Active)	- / -	18 / 0.029	28 / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 0.087	
<i>Subtotal: Recurring</i>	- / -	- / 0.029	- / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.087	
<i>Subtotal: ECP 980 Swashplate Actuator Mod</i>	- / -	- / 0.029	- / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.087	
Modification Item 25 of 36: ECP 992 PRGB Atmospheric Protection Kits													
A Kits													
Recurring													
ECP 992 PRGB Atmospheric Protection Kits:INSTALL KITS Group A (Active)	- / -	- / -	12 / 0.269	12 / 0.269	- / -	12 / 0.269	12 / 0.269	12 / 0.269	3 / 0.067	- / -	- / -	51 / 1.143	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.269	- / 0.269	- / -	- / 0.269	- / 0.269	- / 0.269	- / 0.067	- / -	- / -	- / 1.143	
<i>Subtotal: ECP 992 PRGB Atmospheric Protection Kits</i>	- / -	- / -	- / 0.269	- / 0.269	- / -	- / 0.269	- / 0.269	- / 0.269	- / 0.067	- / -	- / -	- / 1.143	
Modification Item 26 of 36: ECP901R2 Beefy Cables Retrofit Kits													
A Kits													
Recurring													
ECP901R2 Beefy Cables Retrofit Kits:INSTALL KITS Group A (Active)	15 / 0.078	11 / 0.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.138	
<i>Subtotal: Recurring</i>	- / 0.078	- / 0.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.138	
<i>Subtotal: ECP901R2 Beefy Cables Retrofit Kits</i>	- / 0.078	- / 0.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.138	
Modification Item 27 of 36: ECP901R2 Satcom Egg Beater Antenna Kits													

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Exhibit P-3a, Individual Modification: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: V02200 / CV-22 MODS				Modification Number / Title: 8790 / Block 20 Upgrade				
Models of Systems Affected: CV-22			Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
A Kits												
Recurring												
ECP901R2 Satcom Egg Beater Antenna Kits:INSTALL KITS Group A (Active)	15 / 0.331	11 / 0.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.581
<i>Subtotal: Recurring</i>	- / 0.331	- / 0.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.581
<i>Subtotal: ECP901R2 Satcom Egg Beater Antenna Kits</i>	- / 0.331	- / 0.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.581
Modification Item 28 of 36: Formsprag Clutch Impr												
A Kits												
Recurring												
Formsprag Clutch Impr:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.910	10 / 0.910	10 / 0.910	10 / 0.910	11 / 1.001	51 / 4.641
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.910	- / 0.910	- / 0.910	- / 0.910	- / 1.001	- / 4.641
<i>Subtotal: Formsprag Clutch Impr</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.910	- / 0.910	- / 0.910	- / 0.910	- / 1.001	- / 4.641
Modification Item 29 of 36: Fwd Looking Infrared Systems Electronics Unit (FLIR SEU)												
A Kits												
Recurring												
Fwd Looking Infrared Systems Electronics Unit (FLIR SEU):INSTALL KITS Group A (Active)	15 / 0.702	- / -	15 / 0.557	10 / 0.379	- / -	10 / 0.379	11 / 0.421	- / -	- / -	- / -	- / -	51 / 2.059
<i>Subtotal: Recurring</i>	- / 0.702	- / -	- / 0.557	- / 0.379	- / -	- / 0.379	- / 0.421	- / -	- / -	- / -	- / -	- / 2.059
<i>Subtotal: Fwd Looking Infrared Systems Electronics Unit (FLIR SEU)</i>	- / 0.702	- / -	- / 0.557	- / 0.379	- / -	- / 0.379	- / 0.421	- / -	- / -	- / -	- / -	- / 2.059
Modification Item 30 of 36: GAU-21 Gun												
A Kits												
Recurring												
GAU-21 Gun:INSTALL KITS Group A (Active)	100 / 2.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 2.007
<i>Subtotal: Recurring</i>	- / 2.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.007
<i>Subtotal: GAU-21 Gun</i>	- / 2.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.007
Modification Item 31 of 36: Improved Inlet Solution												
A Kits												
Recurring												
Improved Inlet Solution:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	6 / 10.500	10 / 17.500	11 / 19.250	11 / 19.250	13 / 22.750	51 / 89.250
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.500	- / 17.500	- / 19.250	- / 19.250	- / 22.750	- / 89.250
<i>Subtotal: Improved Inlet Solution</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.500	- / 17.500	- / 19.250	- / 19.250	- / 22.750	- / 89.250

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: V02200 / CV-22 MODS						Modification Number / Title: 8790 / Block 20 Upgrade			
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Modification Item 32 of 36: Intel Broadcast Receiver Upgrade													
A Kits													
Recurring													
Intel Broadcast Receiver Upgrade:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 5.100	51 / 5.100
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.100	- / 5.100
<i>Subtotal: Intel Broadcast Receiver Upgrade</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.100	- / 5.100
Modification Item 33 of 36: Life Limited Airframe Components Impr													
A Kits													
Recurring													
Life Limited Airframe Components Impr:INSTALL KITS Group A (Active)	- / -	- / -	2 / 0.036	3 / 0.054	- / -	3 / 0.054	3 / 0.054	3 / 0.054	4 / 0.072	5 / 0.090	31 / 0.558	51 / 0.918	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.036	- / 0.054	- / -	- / 0.054	- / 0.054	- / 0.054	- / 0.072	- / 0.090	- / 0.558	- / 0.918	
<i>Subtotal: Life Limited Airframe Components Impr</i>	- / -	- / -	- / 0.036	- / 0.054	- / -	- / 0.054	- / 0.054	- / 0.054	- / 0.072	- / 0.090	- / 0.558	- / 0.918	
Modification Item 34 of 36: MCOI CAPRE kits													
A Kits													
Recurring													
MCOI CAPRE kits:INSTALL KITS Group A (Active)	- / -	5 / 0.055	- / -	11 / 0.122	- / -	11 / 0.122	11 / 0.122	11 / 0.122	13 / 0.144	- / -	- / -	51 / 0.565	
<i>Subtotal: Recurring</i>	- / -	- / 0.055	- / -	- / 0.122	- / -	- / 0.122	- / 0.122	- / 0.122	- / 0.144	- / -	- / -	- / 0.565	
<i>Subtotal: MCOI CAPRE kits</i>	- / -	- / 0.055	- / -	- / 0.122	- / -	- / 0.122	- / 0.122	- / 0.122	- / 0.144	- / -	- / -	- / 0.565	
Modification Item 35 of 36: Middle Auxiliary Fuel Tanks													
A Kits													
Recurring													
Middle Auxiliary Fuel Tanks:INSTALL KITS Group A (Active)	- / -	15 / 3.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 3.109	
<i>Subtotal: Recurring</i>	- / -	- / 3.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.109	
<i>Subtotal: Middle Auxiliary Fuel Tanks</i>	- / -	- / 3.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.109	
Modification Item 36 of 36: Prop Rotor Hub Spring & Drive Link Impr													
A Kits													
Recurring													
Prop Rotor Hub Spring & Drive Link Impr:INSTALL KITS Group A (Active)	- / -	- / -	- / -	12 / 0.820	- / -	12 / 0.820	12 / 0.820	12 / 0.820	12 / 0.820	12 / 0.820	3 / 0.205	51 / 3.485	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: V02200 / CV-22 MODS						Modification Number / Title: 8790 / Block 20 Upgrade			
Models of Systems Affected: CV-22			Modification Type: Capability Improvement					Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.820	- / -	- / 0.820	- / 0.820	- / 0.820	- / 0.820	- / 0.205	- / -	- / 3.485	
<i>Subtotal: Prop Rotor Hub Spring & Drive Link Impr</i>	- / -	- / -	- / -	- / 0.820	- / -	- / 0.820	- / 0.820	- / 0.820	- / 0.820	- / 0.205	- / -	- / 3.485	
<i>Subtotal: Procurement, All Modification Items</i>	- / 38.993	- / 32.560	- / 10.532	- / 14.457	- / -	- / 14.457	- / 23.485	- / 30.243	- / 29.416	- / 23.954	- / 154.191	- / 357.831	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 1.779	- / 13.381	- / 14.173	- / 14.646	- / -	- / 14.646	- / 10.912	- / 10.930	- / 12.154	- / 22.382	- / 58.975	- / 159.332	
PMA - Contractor Services	- / -	- / 6.786	- / 7.434	- / 7.214	- / -	- / 7.214	- / 7.660	- / 6.208	- / 5.897	- / 5.446	- / 32.096	- / 78.741	
Mod of Spares	- / 0.298	- / 0.328	- / 0.278	- / 0.552	- / -	- / 0.552	- / 0.342	- / 0.339	- / 0.342	- / 0.342	- / 1.710	- / 4.531	
Data	- / -	- / 2.500	- / 2.500	- / 2.500	- / -	- / 2.500	- / 2.500	- / -	- / -	- / -	- / -	- / 10.000	
SIM/TRAINER	10 / 10.050	5 / 6.715	3 / 8.889	2 / 8.334	- / -	2 / 8.334	5 / 6.013	4 / 7.812	8 / 9.176	3 / 6.293	29 / 28.973	69 / 92.255	
SUPPORT-EQUIP	- / 0.612	- / 1.360	- / 2.025	- / 2.030	- / -	- / 2.030	- / 2.033	- / 1.223	- / 1.247	- / 1.272	- / 9.191	- / 20.993	
OTHER GOVT	- / 1.941	- / 4.393	- / 8.708	- / 8.847	- / -	- / 8.847	- / 8.175	- / 6.100	- / 6.346	- / 6.257	- / 32.476	- / 83.243	
<i>Subtotal: Support</i>	10 / 14.680	5 / 35.463	3 / 44.007	2 / 44.123	- / -	2 / 44.123	5 / 37.635	4 / 32.612	8 / 35.162	3 / 41.992	29 / 163.421	69 / 449.095	
Installation													
<i>Modification Item 1 of 36:</i> AC Bus Tie Impr	- / -	- / -	11 / 0.098	11 / 0.103	- / -	11 / 0.103	11 / 0.105	- / -	- / -	- / -	- / -	33 / 0.306	
<i>Modification Item 3 of 36:</i> Advanced Threat Warning System	- / -	- / -	- / -	10 / 0.910	- / -	10 / 0.910	- / -	- / -	- / -	- / -	41 / 4.286	51 / 5.196	
<i>Modification Item 7 of 36:</i> ECP 1001 Gimbal Ring Joint Redesign Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.300	12 / 0.360	12 / 0.360	17 / 0.510	51 / 1.530	
<i>Modification Item 8 of 36:</i> ECP 1020 Rudder Reliability Kits	- / -	12 / 0.275	- / -	12 / 0.234	- / -	12 / 0.234	10 / 0.205	13 / 0.298	- / -	- / -	- / -	47 / 1.012	
<i>Modification Item 9 of 36:</i> ECP 1041 BLOS Kits	- / -	- / -	- / -	5 / 0.230	- / -	5 / 0.230	11 / 0.506	11 / 0.506	11 / 0.506	11 / 0.506	- / -	49 / 2.254	
<i>Modification Item 11 of 36:</i> ECP 866R1 Gen 5 Radio Kits	- / -	13 / 0.130	13 / 0.130	13 / 0.132	- / -	13 / 0.132	- / -	- / -	- / -	- / -	- / -	39 / 0.392	
<i>Modification Item 12 of 36:</i> ECP 869 Nose Landing Gear	- / -	14 / 0.099	- / -	2 / 0.014	- / -	2 / 0.014	- / -	- / -	- / -	- / -	- / -	16 / 0.113	
<i>Modification Item 13 of 36:</i> ECP 873 MCOI Kits	- / -	- / -	- / -	8 / 0.360	- / -	8 / 0.360	13 / 0.585	11 / 0.495	11 / 0.495	5 / 0.225	- / -	48 / 2.160	
<i>Modification Item 14 of 36:</i> ECP 901 Blk C Kits	7 / 1.225	8 / 1.147	6 / 0.860	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 3.232	
<i>Modification Item 15 of 36:</i> ECP 901 Co-Site Kits	15 / 0.765	- / -	11 / 0.497	2 / 0.107	- / -	2 / 0.107	3 / 0.157	3 / 0.163	- / -	- / -	- / -	34 / 1.689	
<i>Modification Item 16 of 36:</i> ECP 901R2 Antenna Mounting Kits	7 / 0.050	8 / 0.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.096	
<i>Modification Item 17 of 36:</i> ECP 901R2 Troop Commander Panel Kits	7 / 0.044	8 / 0.064	5 / 0.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.138	
<i>Modification Item 18 of 36:</i> ECP 906 Fuel Jettison Kits	18 / 2.469	8 / 2.498	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 4.967	
<i>Modification Item 19 of 36:</i> ECP 915 Wiring Harness Kits	- / -	13 / 0.431	11 / 0.263	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.694	
<i>Modification Item 21 of 36:</i> ECP 929 Drive Tube Kits	- / -	- / -	- / -	6 / 0.150	- / -	6 / 0.150	8 / 0.203	8 / 0.207	8 / 0.211	8 / 0.215	13 / 0.335	51 / 1.321	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: V02200 / CV-22 MODS						Modification Number / Title: 8790 / Block 20 Upgrade		
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Modification Item 23 of 36: ECP 964 Cock Pit Voice Recorder Kits	- / -	- / -	5 / 0.088	11 / 0.176	- / -	11 / 0.176	11 / 0.176	11 / 0.176	10 / 0.160	- / -	- / -	48 / 0.776
Modification Item 26 of 36: ECP901R2 Beefy Cables Retrofit Kits	7 / 0.141	8 / 0.144	11 / 0.076	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.361
Modification Item 27 of 36: ECP901R2 Satcom Egg Beater Antenna Kits	7 / 0.024	8 / 0.018	11 / 0.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.065
Modification Item 31 of 36: Improved Inlet Solution	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.008	10 / 1.680	11 / 1.848	24 / 4.032	51 / 8.568
Modification Item 33 of 36: Life Limited Airframe Components Impr	- / -	- / -	- / -	2 / 0.360	- / -	2 / 0.360	3 / 0.540	3 / 0.540	3 / 0.540	4 / 0.720	36 / 6.480	51 / 9.180
Modification Item 34 of 36: MCOI CAPRE kits	- / -	- / -	- / -	5 / 0.040	- / -	5 / 0.040	11 / 0.088	11 / 0.088	11 / 0.088	13 / 0.104	- / -	51 / 0.408
Modification Item 36 of 36: Prop Rotor Hub Spring & Drive Link Impr	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.208	12 / 0.208	12 / 0.208	12 / 0.208	3 / 0.052	51 / 0.884
<i>Subtotal: Installation</i>	68 / 4.718	100 / 4.852	84 / 2.065	87 / 2.816	- / -	87 / 2.816	93 / 2.773	99 / 3.989	88 / 4.248	76 / 4.186	134 / 15.695	829 / 45.342
Total												
Total Cost (Procurement + Support + Installation)	58.391	72.875	56.604	61.396	-	61.396	63.893	66.844	68.826	70.132	333.307	852.268

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 1 of 36: AC Bus Tie Impr

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2015	May 2016	Apr 2017				
Delivery Dates	May 2016	May 2017	Apr 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	11 / 0.098	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.098
FY 2016	- / -	- / -	- / -	11 / 0.103	- / -	11 / 0.103	- / -	- / -	- / -	- / -	- / -	11 / 0.103
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.105	- / -	- / -	- / -	- / -	11 / 0.105
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	11 / 0.098	11 / 0.103	- / -	11 / 0.103	11 / 0.105	- / -	- / -	- / -	- / -	33 / 0.306

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	0	-	-	-	-	-	-	5	6	2	3	3	3	2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	-	-	-	-	-	-	5	6	2	3	3	3	2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 2 of 36: Advanced Multifunctional Display

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo, TX
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Administrative Leadtime (<i>in Months</i>): 4	Production Leadtime (<i>in Months</i>): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						Feb 2020	Feb 2021
Delivery Dates						Feb 2021	Feb 2022

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 58
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 3 of 36: Advanced Threat Warning System

Manufacturer Information

Manufacturer Name: Bell-Boeing				Manufacturer Location: Amarillo TX			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Apr 2016						
Delivery Dates	Apr 2017						

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	10 / 0.910	- / -	10 / 0.910	- / -	- / -	- / -	- / -	- / -	10 / 0.910
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	41 / 4.286	41 / 4.286
Total	- / -	- / -	- / -	10 / 0.910	- / -	10 / 0.910	- / -	- / -	- / -	- / -	41 / 4.286	51 / 5.196

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	-	-	-	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	51	
Out	0	-	-	-	-	-	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	51

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 4 of 36: Auto Dependent Surveillance-Broadcast ADSB/Out

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
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Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Jan 2018	Jan 2019	Jan 2020	
Delivery Dates			Mar 2018	Jan 2019	Jan 2020	Jan 2021	

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 51
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 5 of 36: Data Transfer Unit Upgrade

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Feb 2018	Feb 2019	Feb 2020	Feb 2021
Delivery Dates				Feb 2019	Feb 2020	Feb 2021	Feb 2022

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 58
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 6 of 36: Digital Interoperability Improvement Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
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Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 51
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 7 of 36: ECP 1001 Gimbal Ring Joint Redesign Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates				Dec 2018	Dec 2019	Dec 2020	Dec 2021

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.300	- / -	- / -	- / -	10 / 0.300
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.360	- / -	- / -	12 / 0.360
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.360	- / -	12 / 0.360
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.360	12 / 0.360
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.150	5 / 0.150
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.300	12 / 0.360	12 / 0.360	17 / 0.510	51 / 1.530

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	2	2	3	3	3	3	3	3	3	3	17	51
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	2	2	3	3	3	3	3	3	3	20	51

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 8 of 36: ECP 1020 Rudder Reliability Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		May 2016	Dec 2016	Dec 2017			
Delivery Dates		May 2017	Dec 2017	Dec 2018			

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	12 / 0.275	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.275
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	12 / 0.234	- / -	12 / 0.234	- / -	- / -	- / -	- / -	- / -	12 / 0.234
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.205	- / -	- / -	- / -	- / -	10 / 0.205
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.298	- / -	- / -	- / -	13 / 0.298
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	12 / 0.275	- / -	12 / 0.234	- / -	12 / 0.234	10 / 0.205	13 / 0.298	- / -	- / -	- / -	47 / 1.012

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	0	3	3	3	3	-	-	-	-	-	4	4	4	2	2	2	4	3	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	0	-	3	3	3	3	-	-	-	-	3	3	3	3	2	2	2	4	3	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 9 of 36: ECP 1041 BLOS Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Apr 2016	Dec 2016	Dec 2017	Dec 2018	Dec 2019	
Delivery Dates		Apr 2017	Dec 2017	Dec 2018	Dec 2019	Dec 2020	

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	5 / 0.230	- / -	5 / 0.230	- / -	- / -	- / -	- / -	- / -	5 / 0.230
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.506	- / -	- / -	- / -	- / -	11 / 0.506
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.506	- / -	- / -	- / -	11 / 0.506
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.506	- / -	- / -	11 / 0.506
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.506	- / -	11 / 0.506
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	5 / 0.230	- / -	5 / 0.230	11 / 0.506	11 / 0.506	11 / 0.506	11 / 0.506	- / -	49 / 2.254

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	3	2	3	3	3	2	3	3	3	2	3	3	3	2	3	3	3	-	49
Out	0	-	-	-	-	-	-	-	-	-	-	-	2	3	2	3	3	3	2	3	3	3	2	3	3	3	2	3	3	3	49

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 10 of 36: ECP 527R1 Emergency O2 Bottle Gauge Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
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Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 14
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Aug 2015	Jul 2016					
Delivery Dates	Oct 2016	Sep 2017					

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 42
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 11 of 36: ECP 866R1 Gen 5 Radio Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015					
Delivery Dates	Dec 2015	Dec 2016					

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	13 / 0.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.130
FY 2015	- / -	- / -	13 / 0.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.130
FY 2016	- / -	- / -	- / -	13 / 0.132	- / -	13 / 0.132	- / -	- / -	- / -	- / -	- / -	13 / 0.132
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	13 / 0.130	13 / 0.130	13 / 0.132	- / -	13 / 0.132	- / -	- / -	- / -	- / -	- / -	39 / 0.392

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	0	-	4	4	5	3	3	3	4	3	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39
Out	0	-	-	4	4	5	3	3	3	4	3	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 12 of 36: ECP 869 Nose Landing Gear

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2016					
Delivery Dates		Jan 2017					

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	14 / 0.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.099
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	2 / 0.014	- / -	2 / 0.014	- / -	- / -	- / -	- / -	- / -	2 / 0.014
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	14 / 0.099	- / -	2 / 0.014	- / -	2 / 0.014	- / -	- / -	- / -	- / -	- / -	16 / 0.113

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	4	4	4	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	0	-	4	4	4	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 13 of 36: ECP 873 MCOI Kits

Manufacturer Information

Manufacturer Name: Prototype Integration Facility	Manufacturer Location: Huntsville AL
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	May 2016		Dec 2016	Dec 2017	Dec 2018	Dec 2019	
Delivery Dates	May 2017		Dec 2017	Dec 2018	Dec 2019	Dec 2020	

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	8 / 0.360	- / -	8 / 0.360	- / -	- / -	- / -	- / -	- / -	8 / 0.360
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.585	- / -	- / -	- / -	- / -	13 / 0.585
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.495	- / -	- / -	- / -	11 / 0.495
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.495	- / -	- / -	11 / 0.495
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.225	- / -	5 / 0.225
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	8 / 0.360	- / -	8 / 0.360	13 / 0.585	11 / 0.495	11 / 0.495	5 / 0.225	- / -	48 / 2.160

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	4	4	4	3	3	3	3	3	3	2	3	3	3	2	3	2	-	-	-	48
Out	0	-	-	-	-	-	-	-	-	-	-	-	4	4	4	3	3	3	3	3	3	2	3	3	3	2	3	2	-	-	48

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 14 of 36: ECP 901 Blk C Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014						
Delivery Dates	Dec 2015						

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 1.225	8 / 1.147	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.372
FY 2015	- / -	- / -	6 / 0.860	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.860
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 1.225	8 / 1.147	6 / 0.860	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 3.232

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	7	2	2	2	2	2	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
Out	6	1	2	2	2	2	2	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 15 of 36: ECP 901 Co-Site Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing				Manufacturer Location: Amarillo TX			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Feb 2016	Dec 2016				
Delivery Dates	Dec 2015	Feb 2017	Dec 2017				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	15 / 0.765	- / -	3 / 0.128	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.893
FY 2015	- / -	- / -	8 / 0.369	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.369
FY 2016	- / -	- / -	- / -	2 / 0.107	- / -	2 / 0.107	2 / 0.107	- / -	- / -	- / -	- / -	4 / 0.214
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.050	3 / 0.163	- / -	- / -	- / -	4 / 0.213
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 0.765	- / -	11 / 0.497	2 / 0.107	- / -	2 / 0.107	3 / 0.157	3 / 0.163	- / -	- / -	- / -	34 / 1.689

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot						
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4								
In	15	-	-	-	-	3	3	3	2	1	1	-	-	2	1	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34
Out	13	2	-	-	-	-	3	3	3	2	1	1	-	-	2	1	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 16 of 36: ECP 901R2 Antenna Mounting Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 0.050	8 / 0.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.096
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 0.050	8 / 0.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.096

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	7	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
Out	4	3	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 17 of 36: ECP 901R2 Troop Commander Panel Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014						
Delivery Dates	Dec 2015						

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 0.044	8 / 0.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.108
FY 2015	- / -	- / -	5 / 0.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.030
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 0.044	8 / 0.064	5 / 0.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.138

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	7	2	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
Out	4	3	2	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 18 of 36: ECP 906 Fuel Jettison Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	18 / 2.469	8 / 2.498	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 4.967
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	18 / 2.469	8 / 2.498	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 4.967

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	18	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
Out	15	3	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 19 of 36: ECP 915 Wiring Harness Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Feb 2015						
Delivery Dates	May 2015						

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	13 / 0.431	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.431
FY 2015	- / -	- / -	11 / 0.263	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.263
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	13 / 0.431	11 / 0.263	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.694

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	1	6	6	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
Out	0	-	-	1	6	6	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 20 of 36: ECP 922 Electrical Power Upgrade CFG/VFG

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
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Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							Dec 2021
Delivery Dates							Dec 2022

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 51
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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 21 of 36: ECP 929 Drive Tube Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2021
Delivery Dates		Jun 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2022

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	6 / 0.150	- / -	6 / 0.150	- / -	- / -	- / -	- / -	- / -	6 / 0.150
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.203	- / -	- / -	- / -	- / -	8 / 0.203
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.207	- / -	- / -	- / -	8 / 0.207
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.211	- / -	- / -	8 / 0.211
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.215	- / -	8 / 0.215
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.215	8 / 0.215
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.120	5 / 0.120
Total	- / -	- / -	- / -	6 / 0.150	- / -	6 / 0.150	8 / 0.203	8 / 0.207	8 / 0.211	8 / 0.215	13 / 0.335	51 / 1.321

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	13	51
Out	0	-	-	-	-	-	-	-	-	-	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	15	51

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Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 22 of 36: ECP 935 Mode 5 APX-119 Kits

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Aberdeen Proving Grounds MD
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Administrative Leadtime (<i>in Months</i>): 2	Production Leadtime (<i>in Months</i>): 10
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014						
Delivery Dates	Oct 2015						

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 25
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Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 23 of 36: ECP 964 Cock Pit Voice Recorder Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Nov 2016	Nov 2017	Nov 2018		
Delivery Dates		Dec 2016	Nov 2017	Sep 2018	Aug 2019		

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	5 / 0.088	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.088
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	11 / 0.176	- / -	11 / 0.176	- / -	- / -	- / -	- / -	- / -	11 / 0.176
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.176	- / -	- / -	- / -	- / -	11 / 0.176
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.176	- / -	- / -	- / -	11 / 0.176
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.160	- / -	- / -	10 / 0.160
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	5 / 0.088	11 / 0.176	- / -	11 / 0.176	11 / 0.176	11 / 0.176	10 / 0.160	- / -	- / -	48 / 0.776

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	1	2	2	-	3	3	3	2	3	3	3	2	3	3	3	2	3	3	3	1	-	-	-	-	-	48
Out	0	-	-	-	-	-	1	2	2	-	3	3	3	2	3	3	3	2	3	3	3	2	3	3	3	1	-	-	-	-	48

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 24 of 36: ECP 980 Swashplate Actuator Mod

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
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Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	May 2016					
Delivery Dates	Feb 2016	May 2017					

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 46
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 25 of 36: ECP 992 PRGB Atmospheric Protection Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Apr 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	
Delivery Dates		Apr 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 51
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 26 of 36: ECP901R2 Beefy Cables Retrofit Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Dates							
Contract Dates	Dec 2014						
Delivery Dates	Dec 2015						

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 0.141	8 / 0.144	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.285
FY 2015	- / -	- / -	11 / 0.076	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.076
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 0.141	8 / 0.144	11 / 0.076	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.361

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	7	2	2	2	2	2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
Out	4	3	2	2	2	2	2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 27 of 36: ECP901R2 Satcom Egg Beater Antenna Kits

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014						
Delivery Dates	Dec 2015						

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 0.024	8 / 0.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.042
FY 2015	- / -	- / -	11 / 0.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.023
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 0.024	8 / 0.018	11 / 0.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.065

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	2	2	2	2	2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	4	3	2	2	2	2	2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 28 of 36: Formsprag Clutch Impr

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Feb 2018	Feb 2019	Feb 2020	Feb 2021
Delivery Dates				Feb 2019	Feb 2020	Feb 2021	Feb 2022

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 51
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 29 of 36: Fwd Looking Infrared Systems Electronics Unit (FLIR SEU)

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
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Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Apr 2016	Nov 2016	Nov 2017			
Delivery Dates		Apr 2017	Nov 2017	Nov 2018			

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 51
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 30 of 36: GAU-21 Gun

Manufacturer Information

Manufacturer Name: Specialty CNC Incorporated	Manufacturer Location: Bloomington IN
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Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 100
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 31 of 36: Improved Inlet Solution

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates				Dec 2018	Dec 2019	Dec 2020	Dec 2021

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.008	- / -	- / -	- / -	6 / 1.008
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.680	- / -	- / -	10 / 1.680
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 1.848	- / -	11 / 1.848
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 1.848	11 / 1.848
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 2.184	13 / 2.184
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.008	10 / 1.680	11 / 1.848	24 / 4.032	51 / 8.568

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	2	2	3	3	3	2	24	51
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	3	3	2	2	2	3	3	3	27	51

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 32 of 36: Intel Broadcast Receiver Upgrade

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
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Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 51
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 33 of 36: Life Limited Airframe Components Impr

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Apr 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates		Apr 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	2 / 0.360	- / -	2 / 0.360	- / -	- / -	- / -	- / -	- / -	2 / 0.360
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.540	- / -	- / -	- / -	- / -	3 / 0.540
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.540	- / -	- / -	- / -	3 / 0.540
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.540	- / -	- / -	3 / 0.540
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.720	- / -	4 / 0.720
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.900	5 / 0.900
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 5.580	31 / 5.580
Total	- / -	- / -	- / -	2 / 0.360	- / -	2 / 0.360	3 / 0.540	3 / 0.540	3 / 0.540	4 / 0.720	36 / 6.480	51 / 9.180

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	1	-	1	1	1	-	1	1	1	-	1	1	2	36	51
Out	0	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	1	1	-	1	1	1	-	1	1	1	-	1	1	38	51

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 34 of 36: MCOI CAPRE kits

Manufacturer Information

Manufacturer Name: Prototype Integration Facility	Manufacturer Location: Huntsville AL
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	May 2016		Dec 2016	Dec 2017	Dec 2018	Dec 2019	
Delivery Dates	May 2017		Dec 2017	Dec 2018	Dec 2019	Dec 2020	

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	5 / 0.040	- / -	5 / 0.040	- / -	- / -	- / -	- / -	- / -	5 / 0.040
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.088	- / -	- / -	- / -	- / -	11 / 0.088
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.088	- / -	- / -	- / -	11 / 0.088
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.088	- / -	- / -	11 / 0.088
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.104	- / -	13 / 0.104
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	5 / 0.040	- / -	5 / 0.040	11 / 0.088	11 / 0.088	11 / 0.088	13 / 0.104	- / -	51 / 0.408

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	3	2	3	3	3	3	3	3	2	3	3	3	2	3	3	3	4	-	51
Out	0	-	-	-	-	-	-	-	-	-	-	-	2	3	2	3	3	3	3	3	3	2	3	3	3	2	3	3	3	4	51

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade
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Modification Item 35 of 36: Middle Auxiliary Fuel Tanks

Manufacturer Information

Manufacturer Name: Robertson Fuel Systems	Manufacturer Location: Tempe AZ
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Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 9
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015						
Delivery Dates	Mar 2016						

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 15
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: V02200 / CV-22 MODS	Modification Number / Title: 8790 / Block 20 Upgrade

Modification Item 36 of 36: Prop Rotor Hub Spring & Drive Link Impr

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates			Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.208	- / -	- / -	- / -	- / -	12 / 0.208
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.208	- / -	- / -	- / -	12 / 0.208
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.208	- / -	- / -	12 / 0.208
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.208	- / -	12 / 0.208
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.052	3 / 0.052
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.208	12 / 0.208	12 / 0.208	12 / 0.208	3 / 0.052	51 / 0.884

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	51