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**Department of Defense
Fiscal Year (FY) 2018 Budget Estimates**

May 2017



Air Force

Justification Book Volume 2 of 2

Aircraft Procurement, Air Force

Vol-2 Mods

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Air Force • Budget Estimates FY 2018 • Procurement

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Department of the Air Force
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation -----	FY 2016 Base + OCO -----	FY 2017 PB Request with CR Adj Base -----	FY 2017 Total PB Requests* with CR Adj Base -----
Aircraft Procurement, Air Force	15,948,514	15,722,662	17,570,182
Missile Procurement, Air Force	3,188,714	2,904,680	2,904,680
Space Procurement, Air Force	2,811,456	2,806,111	2,826,011
Procurement of Ammunition, Air Force	1,973,389	1,741,199	1,811,199
Other Procurement, Air Force	21,818,134	18,275,655	19,552,800
Total Department of the Air Force	45,740,207	41,450,307	44,664,872

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 (Dollars in Thousands)

04 May 2017

Appropriation -----	FY 2017 PB Request with CR Adj OCO -----	FY 2017 Total PB Requests* with CR Adj OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj OCO -----
Aircraft Procurement, Air Force	128,900	202,000		202,000
Missile Procurement, Air Force	289,142	289,142	-83,900	205,242
Space Procurement, Air Force				
Procurement of Ammunition, Air Force	228,874	228,874	-201,563	27,311
Other Procurement, Air Force	3,477,001	3,826,798	-137,884	3,688,914
Total Department of the Air Force	4,123,917	4,546,814	-423,347	4,123,467

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04 May 2017

Appropriation -----	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA -----	FY 2017 Total PB Requests* with CR Adj Base + OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj Base + OCO -----
Aircraft Procurement, Air Force	15,851,562	17,772,182		17,772,182
Missile Procurement, Air Force	3,277,722	3,193,822	-83,900	3,109,922
Space Procurement, Air Force	2,806,111	2,826,011		2,826,011
Procurement of Ammunition, Air Force	2,171,636	2,040,073	-201,563	1,838,510
Other Procurement, Air Force	21,890,540	23,379,598	-137,884	23,241,714
Total Department of the Air Force	45,997,571	49,211,686	-423,347	48,788,339

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Appropriation -----	FY 2018 Base -----	FY 2018 OCO -----	FY 2018 Total -----
Aircraft Procurement, Air Force	15,430,849	740,778	16,171,627
Missile Procurement, Air Force	2,296,182	395,400	2,691,582
Space Procurement, Air Force	3,370,775	2,256	3,373,031
Procurement of Ammunition, Air Force	1,376,602	501,509	1,878,111
Other Procurement, Air Force	19,603,497	4,008,887	23,612,384
Total Department of the Air Force	42,077,905	5,648,830	47,726,735

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04 May 2017

Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2016 Base + OCO -----	FY 2017 PB Request with CR Adj Base -----	FY 2017 Total PB Requests* with CR Adj Base -----
01. Combat Aircraft	5,720,072	4,806,394	5,401,894
02. Airlift Aircraft	4,446,961	3,966,180	4,466,180
04. Other Aircraft	914,906	271,118	271,118
05. Modification of Inservice Aircraft	2,802,523	2,504,954	2,966,554
06. Aircraft Spares and Repair Parts	587,181	686,491	781,491
07. Aircraft Supt Equipment & Facilities	1,476,871	1,687,780	1,883,200
20. Undistributed		1,799,745	1,799,745
Total Aircraft Procurement, Air Force	15,948,514	15,722,662	17,570,182

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Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2017 PB Request with CR Adj OCO -----	FY 2017 Total PB Requests* with CR Adj OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj OCO -----
01. Combat Aircraft				
02. Airlift Aircraft	73,000	73,000		73,000
04. Other Aircraft	453,030	453,030		453,030
05. Modification of Inservice Aircraft	299,369	329,169		329,169
06. Aircraft Spares and Repair Parts	25,600	25,600		25,600
07. Aircraft Supt Equipment & Facilities	8,400	51,700		51,700
20. Undistributed	-730,499	-730,499		-730,499
Total Aircraft Procurement, Air Force	128,900	202,000		202,000

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Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA -----	FY 2017 Total PB Requests* with CR Adj Base + OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj Base + OCO -----
01. Combat Aircraft	4,806,394	5,401,894		5,401,894
02. Airlift Aircraft	4,039,180	4,539,180		4,539,180
04. Other Aircraft	724,148	724,148		724,148
05. Modification of Inservice Aircraft	2,804,323	3,295,723		3,295,723
06. Aircraft Spares and Repair Parts	712,091	807,091		807,091
07. Aircraft Supt Equipment & Facilities	1,696,180	1,934,900		1,934,900
20. Undistributed	1,069,246	1,069,246		1,069,246
Total Aircraft Procurement, Air Force	15,851,562	17,772,182		17,772,182

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Appropriation: Aircraft Procurement, Air Force

Budget Activity -----	FY 2018 Base -----	FY 2018 OCO -----	FY 2018 Total -----
01. Combat Aircraft	5,324,984		5,324,984
02. Airlift Aircraft	3,211,257		3,211,257
04. Other Aircraft	229,677	271,080	500,757
05. Modification of Inservice Aircraft	3,573,914	314,831	3,888,745
06. Aircraft Spares and Repair Parts	1,041,569	129,450	1,171,019
07. Aircraft Supt Equipment & Facilities	2,049,448	25,417	2,074,865
20. Undistributed			
Total Aircraft Procurement, Air Force	15,430,849	740,778	16,171,627

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016		FY 2017		FY 2017		S
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft									
Tactical Forces									
1	F-35	A	47	(5,678,692)	43	(4,862,154)	48	(5,457,654)	U
	Less: Advance Procurement (PY)			(-418,880)		(-460,260)		(-460,260)	U
				5,259,812		4,401,894		4,997,394	
2	F-35			460,260		404,500		404,500	U
	Advance Procurement (CY)			(460,260)		(404,500)		(404,500)	
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2018 for FY 2020) (M)								
Total Combat Aircraft				5,720,072		4,806,394		5,401,894	
Budget Activity 02: Airlift Aircraft									
Tactical Airlift									
3	KC-46A Tanker	A	12	2,334,601	15	2,884,591	15	2,884,591	U
Other Airlift									
4	C-130J	A	14	(996,554)	2	(203,655)	2	(203,655)	U
	Less: Advance Procurement (PY)			(-196,000)		(-58,000)		(-58,000)	U
				800,554		145,655		145,655	
5	C-130J			50,000					U
	Advance Procurement (CY)			(50,000)					
	C (FY 2016 for FY 2017) (M)								

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj		FY 2017 Total PB Requests* with CR Adj		FY 2017 Less Enacted Div B P.L.114-254**		FY 2017 Remaining Req with CR Adj		S e c e
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											

Tactical Forces											
1	F-35	A									U
	Less: Advance Procurement (PY)										U
2	F-35										U
	Advance Procurement (CY)										U
	C (FY 2016 for FY 2017) (M)										
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2018 for FY 2020) (M)										
Total Combat Aircraft											
Budget Activity 02: Airlift Aircraft											

Tactical Airlift											
3	KC-46A Tanker	A									U
Other Airlift											
4	C-130J	A	1	(73,000)	1	(73,000)			1	(73,000)	U
	Less: Advance Procurement (PY)										U
				73,000		73,000				73,000	
5	C-130J										U
	Advance Procurement (CY)										U
	C (FY 2016 for FY 2017) (M)										

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Total		FY 2017 Total		FY 2017 Less Enacted		FY 2017 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											
Tactical Forces											
1	F-35	A	43	(4,862,154)	48	(5,457,654)			48	(5,457,654)	U
	Less: Advance Procurement (PY)			(-460,260)		(-460,260)				(-460,260)	U
				4,401,894		4,997,394				4,997,394	
2	F-35			404,500		404,500				404,500	U
	Advance Procurement (CY)			404,500		404,500				404,500	U
	C (FY 2016 for FY 2017) (M)			(404,500)		(404,500)				(404,500)	
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2018 for FY 2020) (M)										
Total Combat Aircraft				4,806,394		5,401,894				5,401,894	
Budget Activity 02: Airlift Aircraft											
Tactical Airlift											
3	KC-46A Tanker	A	15	2,884,591	15	2,884,591			15	2,884,591	U
Other Airlift											
4	C-130J	A	3	(276,655)	3	(276,655)			3	(276,655)	U
	Less: Advance Procurement (PY)			(-58,000)		(-58,000)				(-58,000)	U
				218,655		218,655				218,655	
5	C-130J										U
	Advance Procurement (CY)										U
	C (FY 2016 for FY 2017) (M)										

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft									
Tactical Forces									
1	F-35	A	46	(4,949,184)			46	(4,949,184)	U
	Less: Advance Procurement (PY)			(-404,500)				(-404,500)	U
				-----				-----	
				4,544,684				4,544,684	
2	F-35								
	Advance Procurement (CY)			780,300				780,300	U
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)			(608,100)				(608,100)	
	C (FY 2018 for FY 2020) (M)			(172,200)				(172,200)	
				-----				-----	
	Total Combat Aircraft			5,324,984				5,324,984	
Budget Activity 02: Airlift Aircraft									
Tactical Airlift									
3	KC-46A Tanker	A	15	2,545,674			15	2,545,674	U
Other Airlift									
4	C-130J	A		(57,708)				(57,708)	U
	Less: Advance Procurement (PY)								U
				-----				-----	
				57,708				57,708	
5	C-130J								U
	Advance Procurement (CY)								
	C (FY 2016 for FY 2017) (M)								

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016		FY 2017		FY 2017		S e c
			Quantity	Cost	with CR Adj	Base	Total	PB Requests*	
							with CR Adj	Base	
6	HC-130J	A	5	(498,034)	3	(359,576)	4	(459,576)	U
	Less: Advance Procurement (PY)			(-70,000)		(-42,000)		(-42,000)	U
				428,034		317,576		417,576	
7	HC-130J								
	Advance Procurement (CY)			30,000		20,000		20,000	U
	C (FY 2016 for FY 2017) (M)			(30,000)					
	C (FY 2017 for FY 2018) (M)					(20,000)		(20,000)	
8	MC-130J	A	8	(855,772)	6	(628,358)	10	(1,028,358)	U
	Less: Advance Procurement (PY)			(-112,000)		(-80,000)		(-80,000)	U
				743,772		548,358		948,358	
9	MC-130J								
	Advance Procurement (CY)			60,000		50,000		50,000	U
	C (FY 2016 for FY 2017) (M)			(60,000)					
	C (FY 2017 for FY 2018) (M)					(50,000)		(50,000)	
	C (FY 2018 for FY 2019) (M)								
Total Airlift Aircraft				4,446,961		3,966,180		4,466,180	
Budget Activity 04: Other Aircraft									

Helicopters									
10	UUH-1N Replacement			2,456		18,337		18,337	U
11	CV-22 (MYP)	A	1	64,500					U
Mission Support Aircraft									
12	Civil Air Patrol A/C	A	20	10,400	6	2,637	6	2,637	U
Other Aircraft									
13	Pale Ale	A		37,000					U

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 (Dollars in Thousands)

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj		FY 2017 Total PB Requests* with CR Adj		FY 2017 Less Enacted Div B P.L.114-254**		FY 2017 Remaining Req with CR Adj		S e c e
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
6	HC-130J	A									U
	Less: Advance Procurement (PY)										U
7	HC-130J										U
	Advance Procurement (CY)										U
	C (FY 2016 for FY 2017) (M)										
	C (FY 2017 for FY 2018) (M)										
8	MC-130J	A									U
	Less: Advance Procurement (PY)										U
9	MC-130J										U
	Advance Procurement (CY)										U
	C (FY 2016 for FY 2017) (M)										
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
Total Airlift Aircraft				73,000		73,000				73,000	

Budget Activity 04: Other Aircraft

Helicopters											
10	UUH-1N Replacement										U
11	CV-22 (MYP)	A									U
Mission Support Aircraft											
12	Civil Air Patrol A/C	A									U
Other Aircraft											
13	Pale Ale	A									U

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Line No	Item Nomenclature	Ident Code	FY 2017 Total		FY 2017 Total		FY 2017 Less Enacted		FY 2017 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
6	HC-130J	A	3	(359,576)	4	(459,576)			4	(459,576)	U
	Less: Advance Procurement (PY)			(-42,000)		(-42,000)				(-42,000)	U
				317,576		417,576				417,576	
7	HC-130J										
	Advance Procurement (CY)			20,000		20,000				20,000	U
	C (FY 2016 for FY 2017) (M)										
	C (FY 2017 for FY 2018) (M)			(20,000)		(20,000)				(20,000)	
8	MC-130J	A	6	(628,358)	10	(1,028,358)			10	(1,028,358)	U
	Less: Advance Procurement (PY)			(-80,000)		(-80,000)				(-80,000)	U
				548,358		948,358				948,358	
9	MC-130J										
	Advance Procurement (CY)			50,000		50,000				50,000	U
	C (FY 2016 for FY 2017) (M)										
	C (FY 2017 for FY 2018) (M)			(50,000)		(50,000)				(50,000)	
	C (FY 2018 for FY 2019) (M)										
Total Airlift Aircraft				4,039,180		4,539,180				4,539,180	

Budget Activity 04: Other Aircraft

Helicopters											
10	UUH-1N Replacement			18,337		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			6	2,637	U
Other Aircraft											
13	Pale Ale	A									U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
6	HC-130J	A	2	(218,502)			2	(218,502)	U
	Less: Advance Procurement (PY)			(-20,000)				(-20,000)	U
				198,502				198,502	
7	HC-130J								U
	Advance Procurement (CY)								
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)								
8	MC-130J	A	5	(453,373)			5	(453,373)	U
	Less: Advance Procurement (PY)			(-74,000)				(-74,000)	U
				379,373				379,373	
9	MC-130J								U
	Advance Procurement (CY)			30,000				30,000	
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)			(30,000)				(30,000)	
Total Airlift Aircraft				3,211,257				3,211,257	
Budget Activity 04: Other Aircraft									

Helicopters									
10	UUH-1N Replacement								U
11	CV-22 (MYP)	A							U
Mission Support Aircraft									
12	Civil Air Patrol A/C	A	6	2,695			6	2,695	U
Other Aircraft									
13	Pale Ale	A							U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016		FY 2017		FY 2017		S e c
			Quantity	Base + OCO Cost	Quantity	PB Request with CR Adj Base Cost	Quantity	Total PB Requests* with CR Adj Base Cost	
14	Target Drones	A	50	131,879	41	114,656	41	114,656	U
15	Spectrum Relocation Fund	A		7,993					U
16	RQ-4	A		4,250		12,966		12,966	U
17	MQ-9	A	33	656,428		122,522		122,522	U
Total Other Aircraft				914,906		271,118		271,118	
Budget Activity 05: Modification of Inservice Aircraft									

Strategic Aircraft									
18	B-2A	A		32,157		46,729		46,729	U
19	B-1B	A		114,119		116,319		150,319	U
20	B-52	A		135,532		109,020		109,020	U
21	Large Aircraft Infrared Countermeasures	A		84,335					U
Tactical Aircraft									
22	A-10	A				1,289		39,789	U
23	F-15	A		596,932		105,685		105,685	U
24	F-16	A		12,134		97,331		257,331	U
25	F-22A	A		111,077		163,008		163,008	U
26	F-22A Advance Procurement (CY) C (FY 2018 for FY 2019) (M)								U
27	F-35 Modifications	A		70,167		175,811		175,811	U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj OCO		FY 2017 Total PB Requests* with CR Adj OCO		FY 2017 Less Enacted Div B P.L.114-254** OCO		FY 2017 Remaining Req with CR Adj OCO		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
14	Target Drones	A									U
15	Spectrum Relocation Fund	A									U
16	RQ-4	A									U
17	MQ-9	A	24	453,030	24	453,030			24	453,030	U
Total Other Aircraft				453,030		453,030				453,030	

Budget Activity 05: Modification of Inservice Aircraft

Strategic Aircraft

18	B-2A	A									U
19	B-1B	A									U
20	B-52	A									U
21	Large Aircraft Infrared Countermeasures	A		135,801		135,801				135,801	U

Tactical Aircraft

22	A-10	A		23,850		23,850				23,850	U
23	F-15	A									U
24	F-16	A									U
25	F-22A	A									U
26	F-22A Advance Procurement (CY) C (FY 2018 for FY 2019) (M)										U
27	F-35 Modifications	A									U

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Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Total		FY 2017 Total		FY 2017 Less Enacted		FY 2017 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
14	Target Drones	A	41	114,656	41	114,656			41	114,656	U
15	Spectrum Relocation Fund	A									U
16	RQ-4	A		12,966		12,966				12,966	U
17	MQ-9	A	24	575,552	24	575,552			24	575,552	U
Total Other Aircraft				724,148		724,148				724,148	
Budget Activity 05: Modification of Inservice Aircraft											
Strategic Aircraft											
18	B-2A	A		46,729		46,729				46,729	U
19	B-1B	A		116,319		150,319				150,319	U
20	B-52	A		109,020		109,020				109,020	U
21	Large Aircraft Infrared Countermeasures	A		135,801		135,801				135,801	U
Tactical Aircraft											
22	A-10	A		25,139		63,639				63,639	U
23	F-15	A		105,685		105,685				105,685	U
24	F-16	A		97,331		257,331				257,331	U
25	F-22A	A		163,008		163,008				163,008	U
26	F-22A Advance Procurement (CY) C (FY 2018 for FY 2019) (M)										U
27	F-35 Modifications	A		175,811		175,811				175,811	U

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Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
14	Target Drones	A	42	109,841			42	109,841	U
15	Spectrum Relocation Fund	A							U
16	RQ-4	A							U
17	MQ-9	A		117,141	32	271,080	32	388,221	U
Total Other Aircraft				229,677		271,080		500,757	
Budget Activity 05: Modification of Inservice Aircraft									

Strategic Aircraft									
18	B-2A	A		96,727				96,727	U
19	B-1B	A		155,634				155,634	U
20	B-52	A		109,295				109,295	U
21	Large Aircraft Infrared Countermeasures	A		4,046				4,046	U
Tactical Aircraft									
22	A-10	A		6,010				6,010	U
23	F-15	A		417,193				417,193	U
24	F-16	A		203,864				203,864	U
25	F-22A	A		161,630				161,630	U
26	F-22A								
	Advance Procurement (CY)			15,000				15,000	U
	C (FY 2018 for FY 2019) (M)			(15,000)				(15,000)	
27	F-35 Modifications	A		68,270				68,270	U

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Line No	Item Nomenclature	Ident Code	FY 2016		FY 2017		FY 2017		S e c
			Quantity	Cost	with CR Adj	Base	Total	PB Requests*	
				Base + OCO			with CR Adj	Base	
					Quantity	Cost	Quantity	Cost	
28	Increment 3.2b			(92,825)		(76,410)		(76,410)	U
	Less: Advance Procurement (FY)			(-28,500)					U
				64,325		76,410		76,410	
29	Increment 3.2b								
	Advance Procurement (CY)					2,000		2,000	U
	C (FY 2017 for FY 2018) (M)					(2,000)		(2,000)	
30	KC-46A Tanker	A							U
	Airlift Aircraft								
31	C-5	A				24,192		24,192	U
32	C-5M	A							U
33	C-17A	A		43,697		21,555		21,555	U
34	C-21	A		9,860		5,439		5,439	U
35	C-32A	A		39,464		35,235		35,235	U
36	C-37A	A		12,361		5,004		5,004	U
37	C-130J	A							U
	Trainer Aircraft								
38	Glider Mods	A		134		394		394	U
39	T-6	A		14,968		12,765		12,765	U
40	T-1	A		13,106		25,073		25,073	U
41	T-38	A		30,604		45,090		45,090	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
28	Increment 3.2b Less: Advance Procurement (FY)										U U
29	Increment 3.2b Advance Procurement (CY) C (FY 2017 for FY 2018) (M)										U
30	KC-46A Tanker	A									U
	Airlift Aircraft										
31	C-5	A									U
32	C-5M	A									U
33	C-17A	A									U
34	C-21	A									U
35	C-32A	A									U
36	C-37A	A									U
37	C-130J	A									U
	Trainer Aircraft										
38	Glider Mods	A									U
39	T-6	A									U
40	T-1	A									U
41	T-38	A									U

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Line No	Item Nomenclature	Ident Code	FY 2017 Total		FY 2017 Total		FY 2017 Less Enacted		FY 2017 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
28	Increment 3.2b			(76,410)		(76,410)			(76,410)		U
	Less: Advance Procurement (FY)										U
				76,410		76,410			76,410		
29	Increment 3.2b										
	Advance Procurement (CY)			2,000		2,000			2,000		U
	C (FY 2017 for FY 2018) (M)			(2,000)		(2,000)			(2,000)		
30	KC-46A Tanker	A									U
	Airlift Aircraft										
31	C-5	A		24,192		24,192			24,192		U
32	C-5M	A									U
33	C-17A	A		21,555		21,555			21,555		U
34	C-21	A		5,439		5,439			5,439		U
35	C-32A	A		35,235		35,235			35,235		U
36	C-37A	A		5,004		5,004			5,004		U
37	C-130J	A									U
	Trainer Aircraft										
38	Glider Mods	A		394		394			394		U
39	T-6	A		12,765		12,765			12,765		U
40	T-1	A		25,073		25,073			25,073		U
41	T-38	A		45,090		45,090			45,090		U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost		
28	Increment 3.2b		72	(107,756)			72	(107,756)	U	
	Less: Advance Procurement (FY)			(-2,000)				(-2,000)	U	
				105,756				105,756		
29	Increment 3.2b								U	
	Advance Procurement (CY)									
	C (FY 2017 for FY 2018) (M)									
30	KC-46A Tanker	A		6,213				6,213	U	
Airlift Aircraft										
31	C-5	A		36,592				36,592	U	
32	C-5M	A		6,817				6,817	U	
33	C-17A	A		125,522		26,850		152,372	U	
34	C-21	A		13,253				13,253	U	
35	C-32A	A		79,449				79,449	U	
36	C-37A	A		15,423				15,423	U	
37	C-130J	A		10,727				10,727	U	
Trainer Aircraft										
38	Glider Mods	A		136				136	U	
39	T-6	A		35,706				35,706	U	
40	T-1	A		21,477				21,477	U	
41	T-38	A		51,641				51,641	U	

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			Quantity	Cost	with CR Adj	Base	Total	PB Requests*	
				Base + OCO			with CR Adj	Base	
					Quantity	Cost	Quantity	Cost	
Other Aircraft									
42	U-2 Mods	A		22,095		36,074		36,074	U
43	KC-10A (ATCA)	A		5,611		4,570		4,570	U
44	C-12	A		2,080		1,995		1,995	U
45	VC-25A Mod	A		114,231		102,670		102,670	U
46	C-40	A		9,920		13,984		13,984	U
47	C-130	A		223,258		9,168		146,168	U
48	C-130J Mods	A		29,713		89,424		89,424	U
49	C-135	A		48,868		64,161		64,161	U
50	OC-135B	A							U
51	Compass Call Mods	A		81,990		130,257		182,857	U
52	combat flight inspection (CFIN)	A							U
53	RC-135	A		165,715		211,438		211,438	U
54	E-3	A		12,828		82,786		82,786	U
55	E-4	A		22,071		53,348		53,348	U
56	E-8	A		18,001		6,244		9,244	U
57	Airborne Warning and Control System	A		178,308		223,427		245,227	U
58	Family of Beyond Line-of-Sight Terminals	A		43,843	3	4,673	3	4,673	U
59	H-1	A		6,291		9,007		9,007	U
60	H-60	A		67,054		91,357		99,057	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Aircraft											
42	U-2 Mods	A									U
43	KC-10A (ATCA)	A									U
44	C-12	A									U
45	VC-25A Mod	A									U
46	C-40	A									U
47	C-130	A									U
48	C-130J Mods	A									U
49	C-135	A									U
50	OC-135B	A									U
51	Compass Call Mods	A				29,800			29,800		U
52	combat flight inspection (CFIN)	A									U
53	RC-135	A									U
54	E-3	A		6,600		6,600			6,600		U
55	E-4	A									U
56	E-8	A									U
57	Airborne Warning and Control System	A									U
58	Family of Beyond Line-of-Sight Terminals	A									U
59	H-1	A									U
60	H-60	A									U

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Line No	Item Nomenclature	Ident Code	FY 2017 Total		FY 2017 Total		FY 2017 Less Enacted		FY 2017 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Aircraft											
42	U-2 Mods	A		36,074		36,074				36,074	U
43	KC-10A (ATCA)	A		4,570		4,570				4,570	U
44	C-12	A		1,995		1,995				1,995	U
45	VC-25A Mod	A		102,670		102,670				102,670	U
46	C-40	A		13,984		13,984				13,984	U
47	C-130	A		9,168		146,168				146,168	U
48	C-130J Mods	A		89,424		89,424				89,424	U
49	C-135	A		64,161		64,161				64,161	U
50	OC-135B	A									U
51	Compass Call Mods	A		130,257		212,657				212,657	U
52	combat flight inspection (CFIN)	A									U
53	RC-135	A		211,438		211,438				211,438	U
54	E-3	A		89,386		89,386				89,386	U
55	E-4	A		53,348		53,348				53,348	U
56	E-8	A		6,244		9,244				9,244	U
57	Airborne Warning and Control System	A		223,427		245,227				245,227	U
58	Family of Beyond Line-of-Sight Terminals	A	3	4,673	3	4,673			3	4,673	U
59	H-1	A		9,007		9,007				9,007	U
60	H-60	A		91,357		99,057				99,057	U

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Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Aircraft									
42	U-2 Mods	A		36,406				36,406	U
43	KC-10A (ATCA)	A		4,243				4,243	U
44	C-12	A		5,846				5,846	U
45	VC-25A Mod	A		52,107				52,107	U
46	C-40	A		31,119				31,119	U
47	C-130	A		66,310				66,310	U
48	C-130J Mods	A		171,230		8,400		179,630	U
49	C-135	A		69,428				69,428	U
50	OC-135B	A		23,091				23,091	U
51	Compass Call Mods	A		166,541		56,720		223,261	U
52	combat flight inspection (CFIN)	A		495				495	U
53	RC-135	A		201,559				201,559	U
54	E-3	A		189,772				189,772	U
55	E-4	A		30,493				30,493	U
56	E-8	A		13,232		3,000		16,232	U
57	Airborne Warning and Control System	A		164,786				164,786	U
58	Family of Beyond Line-of-Sight Terminals	A		24,716				24,716	U
59	H-1	A		3,730				3,730	U
60	H-60	A		75,989				75,989	U

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			Quantity	Cost	with CR Adj	Base	Total	PB Requests*	
							with CR Adj	Base	
61	RQ-4 Mods	A		50,022		32,045		32,045	U
62	HC/MC-130 Modifications	A		27,350		30,767		37,767	U
63	Other Aircraft	A		42,475		33,886		33,886	U
64	MQ-1 Mods	A		3,173					U
65	MQ-9 Mods	A		184,051		141,929		141,929	U
66	CV-22 Mods	A		58,603		63,395		63,395	U
Total Modification of Inservice Aircraft				2,802,523		2,504,954		2,966,554	
Budget Activity 06: Aircraft Spares and Repair Parts									

Aircraft Spares and Repair Parts									
67	Initial Spares/Repair Parts	A		587,181		686,491		781,491	U
Total Aircraft Spares and Repair Parts				587,181		686,491		781,491	
Budget Activity 07: Aircraft Supt Equipment & Facilities									

Common Support Equipment									
68	Aircraft Replacement Support Equip	A		33,716		121,935		158,755	U
69	Other Production Charges	A							U
70	Common Support Equipment	A						24,700	U
71	T-53A Trainer	A							U
Post Production Support									
72	B-2A	A				154		154	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
61	RQ-4 Mods	A									U
62	HC/MC-130 Modifications	A		13,550		13,550				13,550	U
63	Other Aircraft	A		7,500		7,500				7,500	U
64	MQ-1 Mods	A									U
65	MQ-9 Mods	A		112,068		112,068				112,068	U
66	CV-22 Mods	A									U
Total Modification of Inservice Aircraft				299,369		329,169				329,169	
Budget Activity 06: Aircraft Spares and Repair Parts											

Aircraft Spares and Repair Parts											
67	Initial Spares/Repair Parts	A		25,600		25,600				25,600	U
Total Aircraft Spares and Repair Parts				25,600		25,600				25,600	
Budget Activity 07: Aircraft Supt Equipment & Facilities											

Common Support Equipment											
68	Aircraft Replacement Support Equip	A									U
69	Other Production Charges	A									U
70	Common Support Equipment	A									U
71	T-53A Trainer	A									U
Post Production Support											
72	B-2A	A									U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
61	RQ-4 Mods	A		32,045		32,045			32,045		U
62	HC/MC-130 Modifications	A		44,317		51,317			51,317		U
63	Other Aircraft	A		41,386		41,386			41,386		U
64	MQ-1 Mods	A									U
65	MQ-9 Mods	A		253,997		253,997			253,997		U
66	CV-22 Mods	A		63,395		63,395			63,395		U
Total Modification of Inservice Aircraft				2,804,323		3,295,723			3,295,723		
Budget Activity 06: Aircraft Spares and Repair Parts											

Aircraft Spares and Repair Parts											
67	Initial Spares/Repair Parts	A		712,091		807,091			807,091		U
Total Aircraft Spares and Repair Parts				712,091		807,091			807,091		
Budget Activity 07: Aircraft Supt Equipment & Facilities											

Common Support Equipment											
68	Aircraft Replacement Support Equip	A		121,935		158,755			158,755		U
69	Other Production Charges	A									U
70	Common Support Equipment	A				24,700			24,700		U
71	T-53A Trainer	A									U
Post Production Support											
72	B-2A	A		154		154			154		U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
61	RQ-4 Mods	A		43,968			43,968		U
62	HC/MC-130 Modifications	A		67,674		153,080	220,754		U
63	Other Aircraft	A		59,068		10,381	69,449		U
64	MQ-1 Mods	A							U
65	MQ-9 Mods	A		264,740		56,400	321,140		U
66	CV-22 Mods	A		60,990			60,990		U
Total Modification of Inservice Aircraft				3,573,914		314,831	3,888,745		
Budget Activity 06: Aircraft Spares and Repair Parts									

Aircraft Spares and Repair Parts									
67	Initial Spares/Repair Parts	A		1,041,569		129,450	1,171,019		U
Total Aircraft Spares and Repair Parts				1,041,569		129,450	1,171,019		
Budget Activity 07: Aircraft Supt Equipment & Facilities									

Common Support Equipment									
68	Aircraft Replacement Support Equip	A		75,846		25,417	101,263		U
69	Other Production Charges	A		8,524			8,524		U
70	Common Support Equipment	A							U
71	T-53A Trainer	A		501			501		U
Post Production Support									
72	B-2A	A		447			447		U

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			Quantity	Cost	with CR Adj	Base	Total	PB Requests*	
				Base + OCO			with CR Adj	Base	
					Quantity	Cost	Quantity	Cost	
73	B-2a	A		39,112		43,330		43,330	U
74	B-52	A		3,693		28,125		28,125	U
75	C-17A	A		15,054		23,559		23,559	U
76	CV-22 Post Production Support			3,353					U
77	C-135	A		1,500					U
78	RC-135	A							U
79	F-15	A							U
80	F-15	A		3,208		2,980		2,980	U
81	F-16	A		8,969		15,155		15,155	U
82	F-22A	A		971		48,505		48,505	U
83	Other Aircraft	A							U
84	MQ-9	A		30,650					U
85	RQ-4 Post Production Charges	A				99		99	U
86	CV-22 Mods	A							U
Industrial Preparedness									
87	Industrial Responsiveness	A		18,802		14,126		28,026	U
88	C-130J	A							U
War Consumables									
89	War Consumables	A		156,465		120,036		120,036	U

Department of the Air Force
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj OCO		FY 2017 Total PB Requests* with CR Adj OCO		FY 2017 Less Enacted Div B P.L.114-254** OCO		FY 2017 Remaining Req with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
73	B-2a	A									U
74	B-52	A									U
75	C-17A	A									U
76	CV-22 Post Production Support										U
77	C-135	A									U
78	RC-135	A									U
79	F-15	A									U
80	F-15	A									U
81	F-16	A									U
82	F-22A	A									U
83	Other Aircraft	A									U
84	MQ-9	A									U
85	RQ-4 Post Production Charges	A									U
86	CV-22 Mods	A									U
Industrial Preparedness											
87	Industrial Responsiveness	A									U
88	C-130J	A									U
War Consumables											
89	War Consumables	A									U

Department of the Air Force
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Total		FY 2017 Total		FY 2017 Less Enacted		FY 2017 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
73	B-2a	A		43,330		43,330			43,330		U
74	B-52	A		28,125		28,125			28,125		U
75	C-17A	A		23,559		23,559			23,559		U
76	CV-22 Post Production Support										U
77	C-135	A									U
78	RC-135	A									U
79	F-15	A									U
80	F-15	A		2,980		2,980			2,980		U
81	F-16	A		15,155		15,155			15,155		U
82	F-22A	A		48,505		48,505			48,505		U
83	Other Aircraft	A									U
84	MQ-9	A									U
85	RQ-4 Post Production Charges	A		99		99			99		U
86	CV-22 Mods	A									U
Industrial Preparedness											
87	Industrial Responsiveness	A		14,126		28,026			28,026		U
88	C-130J	A									U
War Consumables											
89	War Consumables	A		120,036		120,036			120,036		U

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

04 May 2017

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
73	B-2a	A		38,509			38,509		U
74	B-52	A		199			199		U
75	C-17A	A		12,028			12,028		U
76	CV-22 Post Production Support								U
77	C-135	A							U
78	RC-135	A		29,700			29,700		U
79	F-15	A		20,000			20,000		U
80	F-15	A		2,524			2,524		U
81	F-16	A		18,051			18,051		U
82	F-22A	A		119,566			119,566		U
83	Other Aircraft	A		85,000			85,000		U
84	MQ-9	A							U
85	RQ-4 Post Production Charges	A		86,695			86,695		U
86	CV-22 Mods	A		4,500			4,500		U
Industrial Preparedness									
87	Industrial Responsiveness	A		14,739			14,739		U
88	C-130J	A		102,000			102,000		U
War Consumables									
89	War Consumables	A		37,647			37,647		U

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 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016		FY 2017 PB Request with CR Adj		FY 2017 Total PB Requests* with CR Adj		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
	Other Production Charges								
90	Other Production Charges	A		1,118,875		1,252,824		1,372,824	U
92	Other Aircraft	A							U
999	Classified Programs			42,503		16,952		16,952	U
	Total Aircraft Supt Equipment & Facilities			1,476,871		1,687,780		1,883,200	
	Budget Activity 20: Undistributed								
	Undistributed								
96	Adj to Match Continuing Resolution	A				1,799,745		1,799,745	U
	Total Undistributed					1,799,745		1,799,745	
	Total Aircraft Procurement, Air Force			15,948,514		15,722,662		17,570,182	

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

04 May 2017

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj		FY 2017 Total PB Requests* with CR Adj		FY 2017 Less Enacted Div B P.L.114-254**		FY 2017 Remaining Req with CR Adj		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Production Charges											
90	Other Production Charges	A		8,400		51,700				51,700	U
92	Other Aircraft	A									U
999	Classified Programs										U
Total Aircraft Supt Equipment & Facilities				8,400		51,700				51,700	
Budget Activity 20: Undistributed											

Undistributed											
96	Adj to Match Continuing Resolution	A		-730,499		-730,499				-730,499	U
Total Undistributed				-730,499		-730,499				-730,499	
Total Aircraft Procurement, Air Force				128,900		202,000				202,000	

Department of the Air Force
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Total		FY 2017 Total		FY 2017 Less Enacted		FY 2017 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Other Production Charges											
90	Other Production Charges	A		1,261,224		1,424,524				1,424,524	U
92	Other Aircraft	A									U
999	Classified Programs			16,952		16,952				16,952	U
Total Aircraft Supt Equipment & Facilities				1,696,180		1,934,900				1,934,900	
Budget Activity 20: Undistributed											

Undistributed											
96	Adj to Match Continuing Resolution	A		1,069,246		1,069,246				1,069,246	U
Total Undistributed				1,069,246		1,069,246				1,069,246	
Total Aircraft Procurement, Air Force				15,851,562		17,772,182				17,772,182	

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Department of the Air Force
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation: 3010F Aircraft Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
	Other Production Charges								
90	Other Production Charges	A		1,339,160				1,339,160	U
92	Other Aircraft	A		600				600	U
999	Classified Programs			53,212				53,212	U
Total Aircraft Supt Equipment & Facilities				2,049,448		25,417		2,074,865	
Budget Activity 20: Undistributed									

Undistributed									
96	Adj to Match Continuing Resolution	A							U
Total Undistributed									
Total Aircraft Procurement, Air Force				15,430,849		740,778		16,171,627	

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4	02	03	C130J0	C-130J.....	Volume 1 - 33
5	02	03	C130J0	C-130J, Advance Procurement.....	Volume 1 - 39
6	02	03	C130JH	HC-130J.....	Volume 1 - 43
7	02	03	C130JH	HC-130J, Advance Procurement.....	Volume 1 - 53
8	02	03	C130JM	MC-130J.....	Volume 1 - 57
9	02	03	C130JM	MC-130J, Advance Procurement.....	Volume 1 - 67

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10	04	01	H0106O	UUH-1N Replacement.....	Volume 1 - 71
11	04	01	V022A0	CV-22 (MYP).....	Volume 1 - 75
12	04	04	CAPAC0	Civil Air Patrol A/C.....	Volume 1 - 79
13	04	05	10PALE	Pale Ale.....	Volume 1 - 81
14	04	05	10TRGT	Target Drones.....	Volume 1 - 83
15	04	05	11SPEC	Spectrum Relocation Fund.....	Volume 1 - 101
16	04	05	HAEUAV	RQ-4.....	Volume 1 - 103
17	04	05	PRDTB1	MQ-9.....	Volume 1 - 109

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23	05	02	F01500	F-15.....	Volume 2 - 51
24	05	02	F01600	F-16.....	Volume 2 - 77
27	05	02	F03500	F-35 Modifications.....	Volume 2 - 93
28	05	02	F02200	F-22A.....	Volume 2 - 103
29	05	02	F02200	F-22A, Advance Procurement.....	Volume 2 - 117
028	05	02	F2232B	Increment 3.2b.....	Volume 2 - 121
029	05	02	F2232B	Increment 3.2b, Advance Procurement.....	Volume 2 - 127
30	05	05	KC046A	KC-46A.....	Volume 2 - 131
31	05	03	C00500	C-5.....	Volume 2 - 133
32	05	03	C005M0	C-5M.....	Volume 2 - 141
33	05	03	C01700	C-17A.....	Volume 2 - 143
34	05	03	C02100	C-21.....	Volume 2 - 161
35	05	03	C03200	C-32A.....	Volume 2 - 163
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41	05	04	T03800	T-38.....	Volume 2 - 191
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43	05	05	C01000	KC-10A (ATCA).....	Volume 2 - 209
44	05	05	C01200	C-12.....	Volume 2 - 211
45	05	05	C02500	VC-25A Mod.....	Volume 2 - 213
46	05	05	C04000	C-40.....	Volume 2 - 221
47	05	05	C13000	C-130.....	Volume 2 - 227
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50	05	05	C135BO	OC-135B.....	Volume 2 - 257
51	05	05	CALL00	COMPASS CALL Mods.....	Volume 2 - 263
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61	05	05	HAWK00	RQ-4 MODS.....	Volume 2 - 345
62	05	05	HCMC00	HC/MC-130 Modifications.....	Volume 2 - 357
63	05	05	OTHACF	Other Aircraft.....	Volume 2 - 375
64	05	05	PRDT01	MQ-1 Mods.....	Volume 2 - 387
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71	07	02	T053A0	T-53A Trainer.....	Volume 1 - 159
72	07	02	B00200	B-2A.....	Volume 1 - 161
73	07	02	B002B0	B-2a.....	Volume 1 - 163
74	07	02	B05200	B-52.....	Volume 1 - 167
75	07	02	C01700	C-17A.....	Volume 1 - 169
76	07	02	C0V220	CV-22 Post Production Support.....	Volume 1 - 171
77	07	02	C13500	C-135.....	Volume 1 - 173
78	07	02	DARP01	RC-135.....	Volume 1 - 175
79	07	02	F01500	F-15.....	Volume 1 - 179
80	07	02	F0150P	F-15.....	Volume 1 - 183
81	07	02	F0160P	F-16.....	Volume 1 - 185
82	07	02	F02200	F-22A.....	Volume 1 - 187
83	07	02	OTHACF	Other Aircraft.....	Volume 1 - 191

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85	07	02	RQ4DIS	RQ-4 Post Production Charges.....	Volume 1 - 197
87	07	03	000073	Industrial Responsiveness.....	Volume 1 - 207
88	07	03	C130J0	C-130J.....	Volume 1 - 209
89	07	04	000074	War Consumables.....	Volume 1 - 213
90	07	05	000075	Other Production Charges.....	Volume 1 - 219
92	07	05	OTHACF	Other Aircraft.....	Volume 1 - 239

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B-2A	B00200	72	07	02.....	Volume 1 - 161
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B-2a	B002B0	73	07	02.....	Volume 1 - 163
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C-12	C01200	44	05	05.....	Volume 2 - 211
C-130	C13000	47	05	05.....	Volume 2 - 227
C-130J	C130J0	4	02	03.....	Volume 1 - 33
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C-130J	C130J0	88	07	03.....	Volume 1 - 209
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C-32A	C03200	35	05	03.....	Volume 2 - 163
C-37A	C03700	36	05	03.....	Volume 2 - 173
C-40	C04000	46	05	05.....	Volume 2 - 221
C-5	C00500	31	05	03.....	Volume 2 - 133
C-5M	C005M0	32	05	03.....	Volume 2 - 141
COMPASS CALL Mods	CALL00	51	05	05.....	Volume 2 - 263
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CV-22 MODS	V02200	66	05	05.....	Volume 2 - 405
CV-22 Post Production Support	C0V220	76	07	02.....	Volume 1 - 171
Civil Air Patrol A/C	CAPAC0	12	04	04.....	Volume 1 - 79
Common Support Equipment	000999	70	07	01.....	Volume 1 - 157
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F-22A	F02200	28	05	02.....	Volume 2 - 103
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GLIDER Mods	GLID00	38	05	04.....	Volume 2 - 177
H-1	H00100	59	05	05.....	Volume 2 - 319
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KC-46A	KC046A	30	05	05.....	Volume 2 - 131
KC-46A Tanker	KC046A	3	02	02.....	Volume 1 - 23
Large Aircraft Infrared Countermeasures	LAIRCM	21	05	01.....	Volume 2 - 47
MC-130J	C130JM	8	02	03.....	Volume 1 - 57
MC-130J, Advance Procurement	C130JM	9	02	03.....	Volume 1 - 67
MQ-1 Mods	PRDT01	64	05	05.....	Volume 2 - 387
MQ-9	PRDTB1	17	04	05.....	Volume 1 - 109
MQ-9	PRDTB1	84	07	02.....	Volume 1 - 195
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OC-135B	C135BO	50	05	05.....	Volume 2 - 257
Other Aircraft	OTHACF	83	07	02.....	Volume 1 - 191
Other Aircraft	OTHACF	92	07	05.....	Volume 1 - 239
Other Aircraft	OTHACF	63	05	05.....	Volume 2 - 375
Other Production Charges	000075	69	07	01.....	Volume 1 - 155
Other Production Charges	000075	90	07	05.....	Volume 1 - 219
Pale Ale	10PALE	13	04	05.....	Volume 1 - 81
RC-135	DARP01	78	07	02.....	Volume 1 - 175
RC-135	DARP01	53	05	05.....	Volume 2 - 275
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Spectrum Relocation Fund	11SPEC	15	04	05.....	Volume 1 - 101
T-1	T00100	40	05	04.....	Volume 2 - 185
T-38	T03800	41	05	04.....	Volume 2 - 191
T-53A Trainer	T053A0	71	07	02.....	Volume 1 - 159
T-6	JPAT00	39	05	04.....	Volume 2 - 179
Target Drones	10TRGT	14	04	05.....	Volume 1 - 83
U-2 Mods	11U200	42	05	05.....	Volume 2 - 203
UUH-1N Replacement	H0106O	10	04	01.....	Volume 1 - 71
VC-25A Mod	C02500	45	05	05.....	Volume 2 - 213
War Consumables	000074	89	07	04.....	Volume 1 - 213
combat flight inspection (CFIN)	CFIN00	52	05	05.....	Volume 2 - 273

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

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
1	A	ATA000	F-35	47	5,678.692	48	5,457.654	46	4,949.184	-	0.000	46	4,949.184
1	B	ATA000	F-35	47	418.880	48	460.260	46	404.500	-	-	46	404.500
2	C	ATA000	F-35	47	460.260	48	404.500	46	780.300	-	-	46	780.300
Total: Combat Aircraft / Tactical Forces				-	5,720.072	-	5,401.894	-	5,324.984	-	0.000	-	5,324.984

Appropriation 3010F: Aircraft Procurement, Air Force
BA 02: Airlift Aircraft / BSA 2: Tactical Airlift

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
3	A	KC046A	KC-46A Tanker	12	2,334.601	15	2,884.591	15	2,545.674	-	0.000	15	2,545.674
Total: Airlift Aircraft / Tactical Airlift				-	2,334.601	-	2,884.591	-	2,545.674	-	0.000	-	2,545.674

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Appropriation 3010F: Aircraft Procurement, Air Force
BA 02: Airlift Aircraft / BSA 3: Other Airlift

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
4	A	C130J0	C-130J	14	996.554	3	276.655	-	57.708	-	0.000	-	57.708
4	B	C130J0	C-130J	14	196.000	3	58.000	-	0.000	-	-	-	0.000
5	C	C130J0	C-130J	14	50.000	3	0.000	-	0.000	-	-	-	0.000
6	A	C130JH	HC-130J	5	498.034	3	459.576	2	218.502	-	0.000	2	218.502
6	B	C130JH	HC-130J	5	70.000	3	42.000	2	20.000	-	-	2	20.000
7	C	C130JH	HC-130J	5	30.000	3	20.000	2	0.000	-	-	2	0.000
8	A	C130JM	MC-130J	8	855.772	10	1,028.358	5	453.373	-	0.000	5	453.373
8	B	C130JM	MC-130J	8	112.000	10	80.000	5	74.000	-	-	5	74.000
9	C	C130JM	MC-130J	8	60.000	10	50.000	5	30.000	-	-	5	30.000
Total: Airlift Aircraft / Other Airlift				-	2,112.360	-	1,654.589	-	665.583	-	0.000	-	665.583

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Appropriation 3010F: Aircraft Procurement, Air Force
BA 04: Other Aircraft / BSA 1: Helicopters

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
10	A	H0106O	UUH-1N Replacement	-	2.456	-	18.337	-	0.000	-	0.000	-	0.000
10	B	H0106O	UUH-1N Replacement	-	0.000	-	0.000	-	0.000	-	-	-	0.000
11	A	V022A0	CV-22 (MYP)	1	64.500	-	0.000	-	0.000	-	0.000	-	0.000
Total: Other Aircraft / Helicopters				-	66.956	-	18.337	-	0.000	-	0.000	-	0.000

Appropriation 3010F: Aircraft Procurement, Air Force
BA 04: Other Aircraft / BSA 4: Mission Support Aircraft

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
12	A	CAPAC0	Civil Air Patrol A/C	20	10.400	6	2.637	6	2.695	-	0.000	6	2.695

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Appropriation 3010F: Aircraft Procurement, Air Force
BA 04: Other Aircraft / BSA 4: Mission Support Aircraft

				Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
Line#	Cost Type	Line Item #	Line Item Title	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
Total: Other Aircraft / Mission Support Aircraft				-	10.400	-	2.637	-	2.695	-	0.000	-	2.695

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

				Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
Line#	Cost Type	Line Item #	Line Item Title	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
13	A	10PALE	Pale Ale	-	37.000	-	0.000	-	0.000	-	0.000	-	0.000
14	A	10TRGT	Target Drones	50	131.879	41	114.656	42	109.841	-	0.000	42	109.841
15	A	11SPEC	Spectrum Relocation Fund	-	7.993	-	0.000	-	0.000	-	0.000	-	0.000
16	A	HAEUAV	RQ-4	-	4.250	-	12.966	-	0.000	-	0.000	-	0.000
16	B	HAEUAV	RQ-4	-	-	-	-	-	-	-	-	-	-
17	A	PRDTB1	MQ-9	33	656.428	24	575.552	-	117.141	32	271.080	32	388.221

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

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
Total: Other Aircraft / Other Aircraft				-	837.550	-	703.174	-	226.982	-	271.080	-	498.062

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

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
18	A	B00200	B-2A	-	32.157	-	46.729	-	96.727	-	0.000	-	96.727
19	A	B01B00	B-1B	-	114.119	-	150.319	-	155.634	-	0.000	-	155.634
20	A	B05200	B-52	-	135.532	-	109.020	-	109.295	-	0.000	-	109.295
21	A	LAIRCM	Large Aircraft Infrared Countermeasures	-	84.335	-	135.801	-	4.046	-	0.000	-	4.046
Total: Modification of Inservice Aircraft / Strategic Aircraft				-	366.143	-	441.869	-	365.702	-	0.000	-	365.702

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

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
22	A	A01000	A-10	-	0.000	-	63.639	-	6.010	-	0.000	-	6.010
23	A	F01500	F-15	-	596.932	-	105.685	-	417.193	-	0.000	-	417.193
24	A	F01600	F-16	-	12.134	-	257.331	-	203.864	-	0.000	-	203.864
27	A	F03500	F-35 Modifications	-	70.167	-	175.811	-	68.270	-	0.000	-	68.270
28	A	F02200	F-22A	-	111.077	-	163.008	-	161.630	-	0.000	-	161.630
28	B	F02200	F-22A	-	-	-	-	-	-	-	-	-	-
29	C	F02200	F-22A	-	-	-	-	-	15.000	-	-	-	15.000
028	A	F2232B	Increment 3.2b	-	92.825	-	76.410	-	107.756	-	0.000	-	107.756
028	B	F2232B	Increment 3.2b	-	28.500	-	-	-	2.000	-	-	-	2.000
029	C	F2232B	Increment 3.2b	-	-	-	2.000	-	-	-	-	-	-
Total: Modification of Inservice Aircraft / Tactical Aircraft				-	854.635	-	843.884	-	977.723	-	0.000	-	977.723

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Appropriation 3010F: Aircraft Procurement, Air Force
BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
30	A	KC046A	KC-46A	-	0.000	-	0.000	-	6.213	-	0.000	-	6.213
42	A	11U200	U-2 Mods	-	22.095	-	36.074	-	36.406	-	0.000	-	36.406
43	A	C01000	KC-10A (ATCA)	-	5.611	-	4.570	-	4.243	-	0.000	-	4.243
44	A	C01200	C-12	-	2.080	-	1.995	-	5.846	-	0.000	-	5.846
45	A	C02500	VC-25A Mod	-	114.231	-	102.670	-	52.107	-	0.000	-	52.107
46	A	C04000	C-40	-	9.920	-	13.984	-	31.119	-	0.000	-	31.119
47	A	C13000	C-130	-	223.258	-	146.168	-	66.310	-	0.000	-	66.310
48	A	C1300J	C-130J Mods	-	29.713	-	89.424	-	171.230	-	8.400	-	179.630
49	A	C13500	C-135	-	48.868	-	64.161	-	69.428	-	0.000	-	69.428
50	A	C135BO	OC-135B	-	0.000	-	0.000	-	23.091	-	0.000	-	23.091
51	A	CALL00	COMPASS CALL Mods	-	81.990	-	212.657	-	166.541	-	56.720	-	223.261
52	A	CFIN00	combat flight inspection (CFIN)	-	0.000	-	0.000	-	0.495	-	0.000	-	0.495
53	A	DARP01	RC-135	-	165.715	-	211.438	-	201.559	-	0.000	-	201.559
54	A	E00300	E-3	-	12.828	-	89.386	-	189.772	-	0.000	-	189.772

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Appropriation 3010F: Aircraft Procurement, Air Force
BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
55	A	E00400	E-4	-	22.071	-	53.348	-	30.493	-	0.000	-	30.493
56	A	E00800	E-8	-	18.001	-	9.244	-	13.232	-	3.000	-	16.232
57	A	E34045	Airborne Warning and Control System	-	178.308	-	245.227	-	164.786	-	0.000	-	164.786
58	A	FBLOST	Family of Beyond Line-of-Sight Terminals	-	43.843	-	4.673	-	24.716	-	0.000	-	24.716
59	A	H00100	H-1	-	6.291	-	9.007	-	3.730	-	0.000	-	3.730
60	A	H06000	H-60	-	67.054	-	99.057	-	75.989	-	0.000	-	75.989
61	A	HAWK00	RQ-4 MODS	-	50.022	-	32.045	-	43.968	-	0.000	-	43.968
62	A	HCMC00	HC/MC-130 Modifications	-	27.350	-	51.317	-	67.674	-	153.080	-	220.754
63	A	OTHACF	Other Aircraft	-	42.475	-	41.386	-	59.068	-	10.381	-	69.449
64	A	PRDT01	MQ-1 Mods	-	3.173	-	0.000	-	0.000	-	0.000	-	0.000
65	A	PRDTB2	MQ-9 MODS	-	184.051	-	253.997	-	264.740	-	56.400	-	321.140
66	A	V02200	CV-22 MODS	-	58.603	-	63.395	-	60.990	-	0.000	-	60.990
Total: Modification of Inservice Aircraft / Other Aircraft				-	1,417.551	-	1,835.223	-	1,833.746	-	287.981	-	2,121.727

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Appropriation 3010F: Aircraft Procurement, Air Force
BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
31	A	C00500	C-5	-	0.000	-	24.192	-	36.592	-	0.000	-	36.592
32	A	C005M0	C-5M	-	0.000	-	0.000	-	6.817	-	0.000	-	6.817
33	A	C01700	C-17A	-	43.697	-	21.555	-	125.522	-	26.850	-	152.372
34	A	C02100	C-21	-	9.860	-	5.439	-	13.253	-	0.000	-	13.253
35	A	C03200	C-32A	-	39.464	-	35.235	-	79.449	-	0.000	-	79.449
36	A	C03700	C-37A	-	12.361	-	5.004	-	15.423	-	0.000	-	15.423
37	A	C130J0	C-130J	-	0.000	-	0.000	-	10.727	-	0.000	-	10.727
Total: Modification of Inservice Aircraft / Airlift Aircraft				-	105.382	-	91.425	-	287.783	-	26.850	-	314.633

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Appropriation 3010F: Aircraft Procurement, Air Force
BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
38	A	GLID00	GLIDER Mods	-	0.134	-	0.394	-	0.136	-	0.000	-	0.136
39	A	JPAT00	T-6	-	14.968	-	12.765	-	35.706	-	0.000	-	35.706
40	A	T00100	T-1	-	13.106	-	25.073	-	21.477	-	0.000	-	21.477
41	A	T03800	T-38	-	30.604	-	45.090	-	51.641	-	0.000	-	51.641
Total: Modification of Inservice Aircraft / Trainer Aircraft				-	58.812	-	83.322	-	108.960	-	0.000	-	108.960

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

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
67	A	000999	Initial Spares/Repair Parts	-	587.181	-	807.091	-	1,041.569	-	129.450	-	1,171.019

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

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
Total: Aircraft Spares and Repair Parts / Aircraft Spares and Repair Parts				-	587.181	-	807.091	-	1,041.569	-	129.450	-	1,171.019

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

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
68	A	71	Aircraft Replacement Support Equipment	-	33.716	-	158.755	-	75.846	-	25.417	-	101.263
69	A	000075	Other Production Charges	-	0.000	-	0.000	-	8.524	-	0.000	-	8.524
70	A	000999	Common Support Equipment	-	0.000	-	24.700	-	0.000	-	0.000	-	0.000

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

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
Total: Aircraft Supt Equipment & Facilities / Common Support Equipment				-	33.716	-	183.455	-	84.370	-	25.417	-	109.787

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

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
71	A	T053A0	T-53A Trainer	-	0.000	-	0.000	-	0.501	-	0.000	-	0.501
72	A	B00200	B-2A	-	0.000	-	0.154	-	0.447	-	0.000	-	0.447
73	A	B002B0	B-2a	-	39.112	-	43.330	-	38.509	-	0.000	-	38.509
74	A	B05200	B-52	-	3.693	-	28.125	-	0.199	-	0.000	-	0.199
75	A	C01700	C-17A	-	15.054	-	23.559	-	12.028	-	0.000	-	12.028
76	A	C0V220	CV-22 Post Production Support	-	3.353	-	0.000	-	4.500	-	0.000	-	4.500

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

Cost (\$ in Millions)

Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
77	A	C13500	C-135	-	1.500	-	0.000	-	0.000	-	0.000	-	0.000
78	A	DARP01	RC-135	-	0.000	-	0.000	-	29.700	-	0.000	-	29.700
79	A	F01500	F-15	-	0.000	-	0.000	-	20.000	-	0.000	-	20.000
80	A	F0150P	F-15	-	3.208	-	2.980	-	2.524	-	0.000	-	2.524
81	A	F0160P	F-16	-	8.969	-	15.155	-	18.051	-	0.000	-	18.051
82	A	F02200	F-22A	-	0.971	-	48.505	-	119.566	-	0.000	-	119.566
83	A	OTHACF	Other Aircraft	-	0.000	-	0.000	-	85.000	-	0.000	-	85.000
84	A	PRDTB1	MQ-9	-	30.650	-	0.000	-	0.000	-	0.000	-	0.000
85	A	RQ4DIS	RQ-4 Post Production Charges	-	0.000	-	0.099	-	86.695	-	0.000	-	86.695
Total: Aircraft Supt Equipment & Facilities / Post Production Support				-	106.510	-	161.907	-	417.720	-	0.000	-	417.720

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

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
87	A	000073	Industrial Responsiveness	-	18.802	-	28.026	-	14.739	-	0.000	-	14.739
88	A	C130J0	C-130J	-	0.000	-	0.000	-	102.000	-	0.000	-	102.000
Total: Aircraft Supt Equipment & Facilities / Industrial Preparedness				-	18.802	-	28.026	-	116.739	-	0.000	-	116.739

Appropriation 3010F: Aircraft Procurement, Air Force
BA 07: Aircraft Supt Equipment & Facilities / BSA 4: War Consumables

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
89	A	000074	War Consumables	-	156.465	-	120.036	-	37.647	-	0.000	-	37.647

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Appropriation 3010F: Aircraft Procurement, Air Force
BA 07: Aircraft Supt Equipment & Facilities / BSA 4: War Consumables

				Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
Line#	Cost Type	Line Item #	Line Item Title	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
Total: Aircraft Supt Equipment & Facilities / War Consumables				-	156.465	-	120.036	-	37.647	-	0.000	-	37.647

Appropriation 3010F: Aircraft Procurement, Air Force
BA 07: Aircraft Supt Equipment & Facilities / BSA 5: Other Production Charges

				Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
Line#	Cost Type	Line Item #	Line Item Title	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
90	A	000075	Other Production Charges	-	1,118.875	-	1,424.524	-	1,339.160	-	0.000	-	1,339.160
92	A	OTHACF	Other Aircraft	-	0.000	-	0.500	-	0.600	-	0.000	-	0.600
Total: Aircraft Supt Equipment & Facilities / Other Production Charges				-	1,118.875	-	1,425.024	-	1,339.760	-	0.000	-	1,339.760

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

Lookup Matrix by Model

Model:	B-2	
Modification P-40a Aggregated Items Title:	B-2A	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
110031	B-2 Trainer System Upgrade	No
110032	LINK 16/CID/IFR	No
110035	LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS	No
110043	B-2 Adaptable Communications Suite (ACS)	No
110051	LOSSM - Structures	No
110052	110052 LOSSM - Materials	No
110053	LOSSM - Diagnostics	No
110054	B-2 Flex Strike Phase 1	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
110056	B61-12 Integration	No
110057	MGUE	No
8882	Common Very Low Frequency Terminal	No

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Model:	B-2A	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
110065	B-2 GBU-57 MOP Integration	No

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
4291	B-1 TRAINING SUPPORT	No
6882	Digital Communications	No
8423	B-1 Link 16 Crypto	No
92294	LAPTOP CONTROLLED TARGETING POD	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
4280	Fully Integrated Data Links	No
4284	CITS UPGRADE	No
8971	VERTICAL SITUATION DISPLAYS	No

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Model:	F101	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
92299	F-101 Engine SLEP	No

Model:	B-52H	
Modification P-40a Aggregated Items Title:	B-52	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
3265	B-52 Anti-Skid Replacement	No
6885	AETC Trainers (B-52)	No
6888	B-52 New Start Treaty	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
6884	B-52 Internal Weapons Bay Upgrade	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

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Model:	B-52	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8674	ATP upgrade Legacy to SE	Yes
8675	ATP-SE Technology Insertion	Yes

Model:	F-15C	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1203	F-15 C/D Secondary Power System (SPS)	Yes
1205	:Advanced Display Core Processor, ADCP II-C	Yes
1209	F-15 C/D Flight Data Recorder (FDR)	Yes
8755	F-15E IFF MODE 5	Yes
8756	F-15C/D Link 16 Cryptographic Modernization	Yes
8794	F-15C/D Beyond Line Of Sight Communications	No
8797	F-15C Passive Attack Sensor System	No
8798	5th to 4th Gen Gateway	Yes
8799	F-15C MIDS JTRS	No
8801	F-15 C/D SLEP Longerons	Yes
99999X	Low Cost Modifications	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1206	F-15C Infrared Search and Track (IRST)	Yes
6158	F-15C/D APG-63(V)3 radar upgrade	Yes

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Model:	F-15C	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8815	F-15C Simulator Upgrade	No
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	F-15 C/D Secondary Power System (SPS)	Yes
1205	:Advanced Display Core Processor, ADCP II-C	Yes
1209	F-15 C/D Flight Data Recorder (FDR)	Yes
8755	F-15E IFF MODE 5	Yes
8756	F-15C/D Link 16 Cryptographic Modernization	Yes
8798	5th to 4th Gen Gateway	Yes
8801	F-15 C/D SLEP Longerons	Yes
99999X	Low Cost Modifications	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1206	F-15C Infrared Search and Track (IRST)	Yes
6158	F-15C/D APG-63(V)3 radar upgrade	Yes

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Model:	F-15E	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1210	F-15E Flight Data Recorder (FDR)	No
8353	F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM	No
8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	No
8755	F-15E IFF MODE 5	Yes
8756	F-15C/D Link 16 Cryptographic Modernization	Yes
8812	F-15E SATCOM UON	No
8813	F-15E B61 A/C Umbilical	No
8814	F-15E B61 ATS Upgrade	No
99999U	LOW COST RETROFIT MODS	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1202	F-15E Radar Modernization Program APG-82(V)1	No
1	Advanced Display Core Processor, ADCP II-E	No
8800	F-15E MIDS JTRS	No
8674	ATP upgrade Legacy to SE	Yes
8675	ATP-SE Technology Insertion	Yes

Model:	F15CD	
Modification P-40a Aggregated Items Title:	F-15	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		

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

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

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

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

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Model:	F-16	
Modification P-40a Aggregated Items Title:	F-16	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
618270	DIGITAL FLIGHT CONTROL COMPUTER	No
633030	Aggressors Update	No
633032	ADS-B Out	No
661652	Link 16 Crypto	No
694050	AESA Radars	No
8662	AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	No
866250	F-16 TRAINING SYSTEMS	No
99999X	Low Cost Modifications	No
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8669	Full Combat Mission Training	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
602600	F-16 LEGACY STRUCTURAL SLEP	No
618250	Comm Suite Upgrade (Pre-Block)	No
633031	HFLCC AGCAS	No
661653	MIDS-JTRS	No
8674	ATP upgrade Legacy to SE	Yes
8675	ATP-SE Technology Insertion	Yes

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Exhibit P-1M, Procurement Programs - Modification Summary
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Model:	F-35A		
Modification P-40a Aggregated Items Title:	F-35 Modifications		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
F3513	Block 3i LRIP 2-5 Upgrade	No	
F3514	Block 3F LRIP 2-5 Upgrade	No	
F3515	Block 3F LRIP 6-8 Upgrade	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
1	Concurrency	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	
F22022	Structures Retrofit Plan	No	
F22024	Trainers Modernization	No	
F22027	Crypto Modernization	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
1	Reliability and Maintainability Maturation Program	No	
2	TACLink 16	No	
3	F119 Engine Modifications	No	

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Model:	F-22	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
11100	INCREMENT 3.2B	No

Model:	C-5M	
Modification P-40a Aggregated Items Title:	C-5	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8966	C-5 Mission Systems Equipment- Lavatory	No
99999X	Low Cost Mods	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8967	Mission Computer and Weather Radar	No

Model:	C-5B	
Modification P-40a Aggregated Items Title:	C-5	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
99999X	Low Cost Mods	Yes

Model:	C-5C	
Modification P-40a Aggregated Items Title:	C-5	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		

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Model:	C-5C		
Modification P-40a Aggregated Items Title:	C-5		
Item Number	Item Title	Applies to Multiple Models	
99999X	Low Cost Mods	Yes	

Model:	C-17		
Modification P-40a Aggregated Items Title:	C-17A		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
_2000	Pylon Stub FFLZ, FF, Translating Fairing	No	
_2590	ELT Frequency Change	No	
_2633	MFOQA	No	
_3080	Replacement Heads Up Display (RHUD)	No	
99999X	Low Cost Modifications	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
1508	IFF GATM Mode 5	No	
2901	NEXT GEN CNS/ATM	No	
9740	Fixed Installation Satellite Antenna (FISA)	No	
9745	C-17 Real Time In the Cockpit (RTIC)	No	

Model:	C-32A		
Modification P-40a Aggregated Items Title:	C-32A		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			

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Model:	C-32A	
Modification P-40a Aggregated Items Title:	C-32A	
Item Number	Item Title	Applies to Multiple Models
1110	Nitrogen Generation System	No
99999S	SERVICE BULLETINS	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1116	WIDEBAND SATCOM	No
1117	CNS/ATM Compliance	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:	T-6A	
Modification P-40a Aggregated Items Title:	T-6	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
9873	Canopy Fracture Initiation System	No
9878	Aircrew Training Device (ATD) Modernization	No
99999X	Low Cost Modifications	No

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Model:	T-6A	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
9877	Avionics Upgrades FAA Compliance	No

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

Model:	T-38	
Modification P-40a Aggregated Items Title:	T-38	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
6092	T-38 A/B ADS-B Out	No
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

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Model:	T-38	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
6090	T-38 Avionics	No

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

Model:	VC-25A	
Modification P-40a Aggregated Items Title:	VC-25A Mod	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
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
9711	C-25 Avionics Modernization Program	No
9715	VC-25 Block Upgrade	No

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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	
1118	WIDEBAND SATCOM	Yes	
1120	Crew Rest Seats	No	
99999S	SERVICE BULLETINS	Yes	
99999X	Low Cost Modifications	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	
1118	WIDEBAND SATCOM	Yes	
99999S	SERVICE BULLETINS	Yes	
99999X	Low Cost Modifications	Yes	

Model:	C-40		
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
1119	CNS/ATM Compliance	No	

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Model:	C-130		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
3773	C-130 8-Bladed Propeller Upgrade	No	
9139	MOD V IFF	No	
92308	T-56 3.5 Engine Mod	No	
92311	Electronic Propeller Control System (EPCS)	No	
92312	In-Flight Propeller Balancing System (IPBS)	No	
92315	C-130H Simulator	No	
99999A	LOW COST SAFETY MODIFICATIONS	No	
99999M	MISC SIMULATOR UPDATES	No	
99999S	SERVICE BULLETINS	No	
99999X	Low Cost Modifications	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
92316	AFSOC C-130 Mods	No	

Model:	C-130H		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8221	C-130 ALR-69A Radar Warning Receiver (RWR)	No	
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	
9149	C-130 Aux Hyd Pump	Yes	

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Model:	C-130H	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
92302	C-130H Avionics Modernization Program (AMP) Increment 1	No

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

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

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

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Model:	EC-130H		
Modification P-40a Aggregated Items Title:	C-130		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
8578	C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	Yes	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
1001	COMPASS CALL	Yes	
1003	COMPASS CALL Baseline 3	No	

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

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

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

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

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

Model:	C-130J		
Modification P-40a Aggregated Items Title:	C-130J Mods		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
_2612	Avionics System and Structural Modifications	No	
_5296	Wind Gust Brake	No	
99999X	Low Cost Modifications	No	

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Model:	C-130J	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
5222	BLOCK 8.1	No
8646	C-130J Center Wing Replacement	No

Model:	KC-135	
Modification P-40a Aggregated Items Title:	C-135	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
9818	VOR/ILS ANTENNAE	No
9824	ADS-B	No
9826	Rudder Position Indicator (RPI)	No
99999A	LOW COST SAFETY MODIFICATIONS	No
99999X	Low Cost Modifications	No
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8670	MAF Training	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8653	BLOCK 45	No
8735	DAS000 (ROBE)	Yes

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Model:	OC-135	
Modification P-40a Aggregated Items Title:	OC-135B	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1901	ADS-B	No

Model:	OC-135B	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1900	Digital Visual Imaging System (DVIS)	No

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

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

Model:	RC-135S	
Modification P-40a Aggregated Items Title:	RC-135	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		

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Model:	RC-135S		
Modification P-40a Aggregated Items Title:	RC-135		
Item Number	Item Title	Applies to Multiple Models	
_2504	COBRA BALL	Yes	

Model:	TC-135W		
Modification P-40a Aggregated Items Title:	RC-135		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
_2504	COBRA BALL	Yes	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
4263	RIVET JOINT	Yes	

Model:	RC-135U		
Modification P-40a Aggregated Items Title:	RC-135		
Item Number	Item Title	Applies to Multiple Models	
Uncategorized			
4265	COMBAT SENT	No	

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

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

Model:	E-3	
Modification P-40a Aggregated Items Title:	E-3	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
50001P	TSI	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
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
9717	ELECTRONIC PROTECTION	No
9718	IP-enabled Capability (IPEC)	No
1	BLOCK 40/45 BLOCK UPGRADE	No

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

Model:	E-3C	
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
4406B	AEHF Compatible Terminal/PNVC	No
9709F	CNS/ATM(ADS-B OUT)	No
99999S	SERVICE BULLETINS	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
4409	Low Frequency Transmit System (LFTS)	No

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

Model:	E-4	
Modification P-40a Aggregated Items Title:	E-4	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	Family of Beyond Line-of-Sight Terminals	Yes

Model:	E-6	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	Family of Beyond Line-of-Sight Terminals	Yes

Model:	HH-60G	
Modification P-40a Aggregated Items Title:	H-60	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8254	ALTITUDE HOLD AND HOVER SYSTEM (AHHS)	No
8563	LIGHTWEIGHT AIRBORNE RECOVERY SYSTEM V12 UPGRADE	No
8565	Navigation System Upgrade (NSU)	No
8840	Vibration Monitoring System (VMS)	No
8844	Multi-function Color Display	No
8850	MODE 5	No
8851	Gun Replacement	No

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Model:	HH-60G		
Modification P-40a Aggregated Items Title:	H-60		
Item Number	Item Title	Applies to Multiple Models	
8852	CSAR Avionics/Electrical Upgrade	No	
8853	DEFENSIVE SYSTEM UPGRADE	No	
8857	Rotor Brake	No	
8861	HH-60 DATALINKS	No	
99999X	Low Cost Modifications	No	
P-3a Individual Modifications			
Modification Number	Modification Title	Applies to Multiple Models	
8564	Control Display Unit (CDU)	No	
8854	HH-60 OLR Mission Modifications	No	
8856	Block 162	No	
8859	DVE Sensor	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	
470008	Enhanced Weather Capability	No	
470009	ASIP Increment I	No	
470010	SAR	No	
470011	ASIP Install/Calibration	No	

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Model:	RQ-4	
Modification P-40a Aggregated Items Title:	RQ-4 MODS	
Item Number	Item Title	Applies to Multiple Models
470012	MODE 5/ADS-B	No
470014	R&M Enhancements	No
470016	ADC/AFS Refresh	No
470019	Communication Interoperability/Enhancements	No
470020	EISS Enhancements	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
470013	Sensor Enhancements	No
470021	ASIP Increment II	No

Model:	HC-130J	
Modification P-40a Aggregated Items Title:	HC/MC-130 Modifications	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8634	HC-130J Common Configuration	No
8635	HC-130J Personnel Locator System	No
8638	HC-130J Variable Speed Drogue	No
8639	HC-130J Wireless Intercom	No
8640	HC-130J Countermeasures Dispenser System Rapid Dispense	No
8656	Radar	No
99999X	Low Cost Modifications	Yes

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Model:	HC-130J	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8636	HC-130J Situational Awareness	No
8650	Advanced Threat Warning System (ATW)	No
8652	(RFCM) Radio Frequency Countermeasures	No

Model:	MC-130J	
Modification P-40a Aggregated Items Title:	HC/MC-130 Modifications	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
8648	ADS-B out Acceleration	No
99999X	Low Cost Modifications	Yes
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8632	MC-130J Increment 2	No
8642	(AbMN) Air borne Mission Networking	No

Model:	MULTI	
Modification P-40a Aggregated Items Title:	Other Aircraft	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
4501	EHF SATCOM	No
8733	Battlefield ABN Comm Node (BACN)	No

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

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

Model:	A-10	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8674	ATP upgrade Legacy to SE	Yes
8675	ATP-SE Technology Insertion	Yes

Model:	B-1	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8674	ATP upgrade Legacy to SE	Yes
8675	ATP-SE Technology Insertion	Yes

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Model:	KC-46A	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
8735	DAS000 (ROBE)	Yes

Model:	MQ-9	
Modification P-40a Aggregated Items Title:	MQ-9 MODS	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
9151	Block 5	No
9154	Lynx SAR	No
9159	R&M enhancements	No
99999B	MQ-9 Low Cost Mods	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
9152	MQ-9 Field	No
9155	GCS Blk 30	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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Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

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Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Exhibit P-40a										
B-2 Trainer System Upgrade	32.467	2.935	9.578	9.082	-	9.082	-	-	-	-
LINK 16/CID/IFR	-	0.474	0.415	1.718	-	1.718	-	-	-	-
LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS	43.151	-	8.263	8.454	-	8.454	-	-	-	-
B-2 Adaptable Communications Suite (ACS)	21.037	-	0.297	0.624	-	0.624	-	-	-	-
LOSSM - Structures	9.088	4.218	-	-	-	-	-	-	-	-
110052 LOSSM - Materials	4.295	0.000	-	-	-	-	-	-	-	-
LOSSM - Diagnostics	1.409	-	-	-	-	-	-	-	-	-
B-2 Flex Strike Phase 1	-	-	4.214	6.658	-	6.658	-	-	-	-
B-2 Low Cost Engine Modifications	18.186	0.000	0.703	0.718	-	0.718	-	-	-	-
Low Cost Modifications	19.612	0.266	0.601	0.613	-	0.613	-	-	-	-
Self Contained Attitude Indicator	-	6.562	-	-	-	-	-	-	-	-
B-1 TRAINING SUPPORT	2.109	0.434	0.438	0.448	-	0.448	-	-	-	-
Digital Communications	38.984	0.100	-	-	-	-	-	-	-	-
B-1 Link 16 Crypto	0.223	1.011	1.380	0.100	-	0.100	-	-	-	-
LAPTOP CONTROLLED TARGETING POD	72.337	4.634	0.200	6.401	-	6.401	-	-	-	-
Low Cost Modifications	4.972	0.101	0.100	1.400	-	1.400	-	-	-	-
B-52 Anti-Skid Replacement	17.637	0.883	0.889	0.909	-	0.909	-	-	-	-
AETC Trainers (B-52)	4.584	0.010	2.406	2.460	-	2.460	-	-	-	-
B-52 New Start Treaty	1.433	0.099	0.196	-	-	-	-	-	-	-
B-52 WST AR Upgrade Trainer	-	-	-	1.809	-	1.809	-	-	-	-

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Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
B-52 Low Cost Improvements	-	-	2.331	2.378	-	2.378	-	-	-	-
B-52 Mode S/5	22.069	2.488	-	-	-	-	-	-	-	-
B-52 Low Cost Mods	1.044	0.436	0.439	0.450	-	0.450	-	-	-	-
F-15 C/D Secondary Power System (SPS)	6.642	0.850	-	-	-	-	-	-	-	-
:Advanced Display Core Processor, ADCP II-C	-	0.000	1.859	6.475	0.000	6.475	-	-	-	-
F-15 C/D Flight Data Recorder (FDR)	23.959	0.075	0.265	0.303	-	0.303	-	-	-	-
F-15E Flight Data Recorder (FDR)	137.610	0.630	1.812	2.421	-	2.421	-	-	-	-
F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM	102.724	-	-	1.200	-	1.200	-	-	-	-
AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	5.780	0.288	0.103	1.119	-	1.119	-	-	-	-
F-15E IFF MODE 5	28.035	-	-	8.006	-	8.006	-	-	-	-
F-15C/D Link 16 Cryptographic Modernization	0.002	2.837	-	0.000	-	0.000	-	-	-	-
F-15C/D Beyond Line Of Sight Communications	54.239	-	-	0.065	-	0.065	-	-	-	-
F-15C Passive Attack Sensor System	26.969	0.504	0.704	-	-	-	-	-	-	-
5th to 4th Gen Gateway	-	-	-	0.844	-	0.844	-	-	-	-
F-15C MIDS JTRS	-	0.000	-	4.970	-	4.970	-	-	-	-
F-15 C/D SLEP Longerons	-	-	-	7.023	-	7.023	-	-	-	-
F-15 C/D Cabin Pressure Indicator	-	1.977	-	0.076	-	0.076	-	-	-	-
F-15 E Cabin Pressure Indicator	-	3.332	-	0.126	-	0.126	-	-	-	-
F-15E SATCOM UON	10.300	-	7.400	0.000	-	0.000	-	-	-	-
F-15E B61 A/C Umbilical	-	0.542	-	-	-	-	-	-	-	-
F-15E B61 ATS Upgrade	-	3.513	-	-	-	-	-	-	-	-
LOW COST RETROFIT MODS	5.763	-	0.001	0.001	-	0.001	-	-	-	-

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Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Low Cost Modifications	5.759	-	0.001	0.001	-	0.001	-	-	-	-
DIGITAL FLIGHT CONTROL COMPUTER	11.201	-	-	-	-	-	-	-	-	-
Aggressors Update	-	-	6.925	5.306	-	5.306	-	-	-	-
ADS-B Out	-	-	-	9.009	-	9.009	-	-	-	-
Link 16 Crypto	-	3.200	6.447	-	-	-	-	-	-	-
AESA Radars	-	-	216.496	2.873	-	2.873	-	-	-	-
AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	93.236	5.305	6.996	5.291	-	5.291	-	-	-	-
F-16 TRAINING SYSTEMS	-	3.250	2.875	3.949	-	3.949	-	-	-	-
Low Cost Modifications	12.299	0.379	0.742	0.003	-	0.003	-	-	-	-
Block 3i LRIP 2-5 Upgrade	145.115	44.797	11.485	5.098	-	5.098	-	-	-	-
Block 3F LRIP 2-5 Upgrade	-	6.790	0.006	0.540	-	0.540	-	-	-	-
Block 3F LRIP 6-8 Upgrade	-	-	-	0.056	-	0.056	-	-	-	-
COMMON CONFIGURATION	666.026	2.051	1.131	-	-	-	-	-	-	-
INCREMENT 3.1	246.437	3.335	2.877	0.139	-	0.139	-	-	-	-
Structures Retrofit Plan	234.439	14.552	14.598	9.940	-	9.940	-	-	-	-
Trainers Modernization	81.018	3.525	4.067	9.237	-	9.237	-	-	-	-
Crypto Modernization	3.704	-	-	-	-	-	-	-	-	-
C-5 Mission Systems Equipment- Lavatory	-	-	3.950	6.129	-	6.129	-	-	-	-
Low Cost Mods	1.775	-	0.428	-	-	-	-	-	-	-
Pylon Stub FFLZ, FF, Translating Fairing	78.978	3.223	8.750	3.297	-	3.297	-	-	-	-
ELT Frequency Change	3.062	0.000	-	2.349	-	2.349	-	-	-	-
MFOQA	12.568	1.502	-	-	-	-	-	-	-	-

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Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Replacement Heads Up Display (RHUD)	-	-	-	6.274	-	6.274	-	-	-	-
Low Cost Modifications	3.117	-	-	0.303	-	0.303	-	-	-	-
Nitrogen Generation System	25.896	0.000	-	1.503	-	1.503	-	-	-	-
SERVICE BULLETINS	0.010	1.005	0.005	0.005	-	0.005	-	-	-	-
99999SG - Service Bulletins - C-32B	1.860	0.935	1.000	1.000	-	1.000	-	-	-	-
Low Cost Modifications	0.010	0.005	0.005	0.005	-	0.005	-	-	-	-
99999XG - Low Cost Mods - C-32B	1.696	0.885	0.837	0.874	-	0.874	-	-	-	-
Canopy Fracture Initiation System	-	0.558	0.133	0.069	-	0.069	-	-	-	-
Aircrew Training Device (ATD) Modernization	-	13.337	11.288	5.060	-	5.060	-	-	-	-
Low Cost Modifications	-	1.073	1.344	1.716	-	1.716	-	-	-	-
Low Cost Modifications	1.343	0.296	0.300	0.305	-	0.305	-	-	-	-
T-38 A/B ADS-B Out	-	-	7.685	-	-	-	-	-	-	-
LOW COST SAFETY MODIFICATIONS	0.029	0.000	0.005	0.005	-	0.005	-	-	-	-
Low Cost Modifications	0.031	0.000	0.006	0.006	-	0.006	-	-	-	-
WIDEBAND SATCOM	-	28.000	-	-	-	-	-	-	-	-
SERVICE BULLETINS	0.635	0.131	0.236	0.893	-	0.893	-	-	-	-
Low Cost Modifications	0.200	1.999	0.100	0.100	-	0.100	-	-	-	-
Nitrogen Generation System	8.950	0.900	-	-	-	-	-	-	-	-
WIDEBAND SATCOM	52.000	7.900	10.900	-	-	-	-	-	-	-
Crew Rest Seats	-	-	-	7.551	-	7.551	-	-	-	-
SERVICE BULLETINS	0.231	0.136	0.143	0.298	-	0.298	-	-	-	-
Low Cost Modifications	0.230	0.015	0.100	0.200	-	0.200	-	-	-	-
C-130 8-Bladed Propeller Upgrade	56.000	10.000	-	-	-	-	-	-	-	-

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Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
C-130 ALR-69A Radar Warning Receiver (RWR)	-	-	11.000	-	-	-	-	-	-	-
C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION)	658.410	3.100	5.140	8.160	-	8.160	-	-	-	-
MOD V IFF	39.233	-	-	1.550	-	1.550	-	-	-	-
C-130 CRASHWORTHY LOADMASTER SEAT	1.112	0.756	-	-	-	-	-	-	-	-
C-130 Aux Hyd Pump	13.548	1.338	0.328	0.522	-	0.522	-	-	-	-
T-56 3.5 Engine Mod	38.300	33.200	-	-	-	-	-	-	-	-
Onboard Fire Incident Response Equipment	47.406	82.594	-	-	-	-	-	-	-	-
HC-130P/N Variable Speed Drogue (VSD)	-	1.410	-	-	-	-	-	-	-	-
Electronic Propeller Control System (EPCS)	-	13.500	126.000	-	-	-	-	-	-	-
In-Flight Propeller Balancing System (IPBS)	-	1.500	-	-	-	-	-	-	-	-
C-130H Simulator	-	-	-	25.000	-	25.000	-	-	-	-
LOW COST SAFETY MODIFICATIONS	2.832	1.900	0.500	1.499	-	1.499	-	-	-	-
MISC SIMULATOR UPDATES	0.703	1.200	0.100	0.606	-	0.606	-	-	-	-
SERVICE BULLETINS	0.001	1.222	1.101	1.024	-	1.024	-	-	-	-
Low Cost Modifications	10.127	1.538	1.999	1.449	-	1.449	-	-	-	-
Avionics System and Structural Modifications	23.702	2.554	3.200	3.200	-	3.200	-	-	-	-
Wind Gust Brake	43.102	0.114	1.600	1.500	-	1.500	-	-	-	-
Low Cost Modifications	9.004	0.103	0.100	0.507	-	0.507	-	-	-	-
VOR/ILS ANTENNAE	8.478	0.752	0.162	-	-	-	-	-	-	-
ADS-B	-	-	-	5.000	-	5.000	-	-	-	-
Rudder Position Indicator (RPI)	-	-	4.903	5.978	-	5.978	-	-	-	-
LOW COST SAFETY MODIFICATIONS	0.000	0.025	0.025	0.025	-	0.025	-	-	-	-

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Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Low Cost Modifications	8.092	1.000	1.901	1.111	-	1.111	-	-	-	-
ADS-B	-	-	-	2.991	-	2.991	-	-	-	-
COBRA BALL	-	6.144	6.325	6.959	0.000	6.959	-	-	-	-
COMBAT SENT	-	6.633	20.728	6.793	-	6.793	-	-	-	-
TSI	16.450	2.557	-	0.000	-	0.000	-	-	-	-
NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF)	53.556	1.024	5.867	-	-	-	-	-	-	-
AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS	5.624	0.687	0.687	0.700	-	0.700	-	-	-	-
RM&A Mod	20.106	0.825	0.668	0.620	-	0.620	-	-	-	-
Virtual Warfare Center	-	-	-	9.439	-	9.439	-	-	-	-
VERTICAL STABILIZER AND RUDDER	1.952	0.665	0.287	0.135	-	0.135	-	-	-	-
LOW COST MOD - AIRFRAME	0.250	0.100	0.100	0.131	-	0.131	-	-	-	-
LOW COST MOD - AVIONICS & MISSION SYSTEMS	0.250	0.100	0.100	0.131	-	0.131	-	-	-	-
NPES (NC2AIS) E-4B	2.030	0.700	-	-	-	-	-	-	-	-
SHF Modernization	68.391	19.509	-	-	-	-	-	-	-	-
AEHF Compatible Terminal/PNVC	0.000	-	0.017	-	-	-	-	-	-	-
CNS/ATM(ADS-B OUT)	0.520	-	4.720	4.860	-	4.860	-	-	-	-
SERVICE BULLETINS	17.252	0.875	5.416	3.262	-	3.262	-	-	-	-
Low Cost Modifications	5.435	0.987	1.990	1.938	-	1.938	-	-	-	-
ALTITUDE HOLD AND HOVER SYSTEM (AHHS)	35.174	0.599	0.010	-	-	-	-	-	-	-
LIGHTWEIGHT AIRBORNE RECOVERY SYSTEM V12 UPGRADE	23.662	0.390	-	-	-	-	-	-	-	-
Navigation System Upgrade (NSU)	57.127	1.245	3.190	2.720	-	2.720	-	-	-	-

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 (Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Vibration Monitoring System (VMS)	39.028	1.885	0.010	-	-	-	-	-	-	-
Multi-function Color Display	30.179	1.456	1.259	3.330	-	3.330	-	-	-	-
MODE 5	12.895	0.908	8.620	1.564	-	1.564	-	-	-	-
Gun Replacement	20.220	0.000	10.164	3.276	-	3.276	-	-	-	-
CSAR Avionics/Electrical Upgrade	15.019	0.758	0.620	0.860	0.000	0.860	-	-	-	-
DEFENSIVE SYSTEM UPGRADE	15.019	-	0.010	-	-	-	-	-	-	-
Rotor Brake	-	3.000	0.010	-	-	-	-	-	-	-
HH-60 DATALINKS	-	-	7.700	0.121	-	0.121	-	-	-	-
Low Cost Modifications	5.358	0.277	0.464	0.920	-	0.920	-	-	-	-
GH Aircraft Mods	391.606	4.715	1.083	1.170	-	1.170	-	-	-	-
GH Ground Station Mods	15.523	-	-	-	-	-	-	-	-	-
Enhanced Weather Capability	-	5.832	7.599	3.350	-	3.350	-	-	-	-
ASIP Increment I	-	34.108	0.000	0.000	-	0.000	-	-	-	-
SAR	-	2.133	2.418	-	-	-	-	-	-	-
ASIP Install/Calibration	12.448	-	-	-	-	-	-	-	-	-
MODE 5/ADS-B	-	-	1.205	1.338	-	1.338	-	-	-	-
R&M Enhancements	-	1.234	1.634	-	-	-	-	-	-	-
ADC/AFS Refresh	-	-	1.835	2.070	-	2.070	-	-	-	-
Communication Interoperability/Enhancements	-	-	3.000	0.000	-	0.000	-	-	-	-
EISS Enhancements	-	-	-	3.820	-	3.820	-	-	-	-
Low Cost Modifications	-	2.000	2.000	2.000	-	2.000	-	-	-	-
HC-130J Common Configuration	25.252	6.199	3.712	6.479	-	6.479	-	-	-	-
HC-130J Personnel Locator System	10.871	-	7.250	0.000	-	0.000	-	-	-	-

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Air Force • Budget Estimates FY 2018 • Procurement
 Exhibit P-1M, Procurement Programs - Modification Summary
 (Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
HC-130J Variable Speed Drogue	-	4.030	-	-	-	-	-	-	-	-
HC-130J Wireless Intercom	-	1.660	-	-	-	-	-	-	-	-
HC-130J Countermeasures Dispenser System Rapid Dispense	-	-	9.300	-	4.980	4.980	-	-	-	-
ADS-B out Acceleration	-	-	-	2.530	-	2.530	-	-	-	-
Radar	-	-	-	-	11.200	11.200	-	-	-	-
Low Cost Modifications	8.147	0.000	1.987	1.943	-	1.943	-	-	-	-
EHF SATCOM	37.286	0.001	-	-	-	-	-	-	-	-
Full Combat Mission Training	58.374	2.459	1.694	13.877	-	13.877	-	-	-	-
MAF Training	28.743	-	29.525	1.172	-	1.172	-	-	-	-
Battlefield ABN Comm Node (BACN)	1.990	-	7.500	-	-	-	-	-	-	-
MISCELLANEOUS LOW COSTS MODS (Combat Developments)	142.259	0.128	0.138	0.162	-	0.162	-	-	-	-
HH-60U	-	1.900	1.708	0.000	0.000	0.000	-	-	-	-
Block 5	7.360	-	6.124	9.670	-	9.670	-	-	-	-
Lynx SAR	33.432	33.432	27.866	-	-	-	-	-	-	-
R&M enhancements	49.800	21.226	3.710	5.091	-	5.091	-	-	-	-
MQ-9 Low Cost Mods	8.000	0.765	2.000	2.000	-	2.000	-	-	-	-
Low Cost Modifications	13.409	1.999	1.999	1.999	-	1.999	-	-	-	-
Exhibit P-3a										
B61-12 Integration	0.000	0.000	0.000	27.514	0.000	27.514	-	-	-	-
MGUE	-	-	4.066	10.704	0.000	10.704	-	-	-	-
B-2 GBU-57 MOP Integration	-	0.000	0.000	20.032	0.000	20.032	-	-	-	-
Common Very Low Frequency Terminal	0.000	24.264	18.592	10.610	0.000	10.610	-	-	-	-

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Air Force • Budget Estimates FY 2018 • Procurement
 Exhibit P-1M, Procurement Programs - Modification Summary
 (Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Fully Integrated Data Links	272.053	42.462	56.773	50.032	0.000	50.032	-	-	-	-
CITS UPGRADE	72.381	16.000	14.637	15.993	0.000	15.993	-	-	-	-
VERTICAL SITUATION DISPLAYS	156.235	38.715	42.791	47.260	0.000	47.260	-	-	-	-
F-101 Engine SLEP	157.678	4.100	34.000	34.000	0.000	34.000	-	-	-	-
B-52 Combat Network Communications Technology	275.133	117.144	99.068	74.355	0.000	74.355	-	-	-	-
B-52 Internal Weapons Bay Upgrade	7.846	14.472	3.691	26.934	0.000	26.934	-	-	-	-
F-15E Radar Modernization Program APG-82(V)1	700.248	312.284	89.775	229.787	0.000	229.787	-	-	-	-
Advanced Display Core Processor, ADCP II-E	0.000	0.000	3.765	50.477	0.000	50.477	-	-	-	-
F-15C Infrared Search and Track (IRST)	-	0.000	0.000	57.593	0.000	57.593	-	-	-	-
F-15C/D APG-63(V)3 radar upgrade	1,089.105	270.100	0.000	16.723	0.000	16.723	-	-	-	-
F-15E MIDS JTRS	-	0.000	0.000	14.983	0.000	14.983	-	-	-	-
F-15C Simulator Upgrade	-	0.000	0.000	15.000	0.000	15.000	-	-	-	-
F-16 LEGACY STRUCTURAL SLEP	0.000	0.000	2.775	18.127	0.000	18.127	-	-	-	-
Comm Suite Upgrade (Pre-Block)	0.000	0.000	0.000	45.916	0.000	45.916	-	-	-	-
HFLCC AGCAS	-	-	-	15.445	0.000	15.445	-	-	-	-
MIDS-JTRS	-	0.000	14.075	97.945	0.000	97.945	-	-	-	-
Concurrency	239.818	18.580	164.320	62.576	0.000	62.576	-	-	-	-
Reliability and Maintainability Maturation Program	1,047.753	71.714	125.835	127.845	0.000	127.845	-	-	-	-
TACLink 16	-	0.000	0.000	15.000	0.000	15.000	-	-	-	-
F119 Engine Modifications	53.893	15.900	14.500	14.469	0.000	14.469	-	-	-	-
INCREMENT 3.2B	28.500	64.325	78.410	105.756	0.000	105.756	-	-	-	-
Mission Computer and Weather Radar	0.000	0.000	19.814	30.463	0.000	30.463	-	-	-	-
IFF GATM Mode 5	67.206	19.388	10.318	50.723	0.000	50.723	-	-	-	-

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 Exhibit P-1M, Procurement Programs - Modification Summary
 (Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
NEXT GEN CNS/ATM	23.602	19.584	2.487	22.920	0.000	22.920	-	-	-	-
Fixed Installation Satellite Antenna (FISA)	-	0.000	0.000	39.656	0.000	39.656	-	-	-	-
C-17 Real Time In the Cockpit (RTIC)	-	0.000	0.000	0.000	26.850	26.850	-	-	-	-
WIDEBAND SATCOM	41.000	35.634	29.423	53.425	0.000	53.425	-	-	-	-
CNS/ATM Compliance	-	1.000	3.965	22.637	0.000	22.637	-	-	-	-
Avionics Upgrades FAA Compliance	-	0.000	0.000	28.861	0.000	28.861	-	-	-	-
Avionics Modification	7.362	12.810	24.773	21.172	0.000	21.172	-	-	-	-
Pacer Classic III	102.136	3.921	31.255	22.500	0.000	22.500	-	-	-	-
T-38 Avionics	0.000	26.683	6.139	29.130	0.000	29.130	-	-	-	-
U-2 Mod	-	22.095	36.074	36.406	0.000	36.406	-	-	-	-
C-25 Avionics Modernization Program	0.000	0.000	0.000	18.000	0.000	18.000	-	-	-	-
VC-25 Block Upgrade	-	84.101	102.334	33.114	0.000	33.114	-	-	-	-
CNS/ATM Compliance	-	0.969	2.841	23.070	0.000	23.070	-	-	-	-
C-130H Avionics Modernization Program (AMP) Increment 1	0.000	70.000	0.000	15.500	0.000	15.500	-	-	-	-
AFSOC C-130 Mods	-	0.000	0.000	11.000	0.000	11.000	-	-	-	-
BLOCK 8.1	-	26.445	71.729	141.781	0.000	141.781	-	-	-	-
C-130J Center Wing Replacement	52.713	0.497	12.795	24.242	8.400	32.642	-	-	-	-
BLOCK 45	105.343	47.091	57.170	57.314	0.000	57.314	-	-	-	-
Digital Visual Imaging System (DVIS)	0.000	0.000	0.000	20.100	0.000	20.100	-	-	-	-
COMPASS CALL	-	58.694	19.258	8.000	14.120	22.120	-	-	-	-
COMPASS CALL Baseline 3	-	23.296	193.399	158.541	42.600	201.141	-	-	-	-
RIVET JOINT	-	152.938	184.385	187.807	0.000	187.807	-	-	-	-

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Air Force • Budget Estimates FY 2018 • Procurement
 Exhibit P-1M, Procurement Programs - Modification Summary
 (Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
E-3 DRAGON	0.000	0.000	56.188	120.647	0.000	120.647	-	-	-	-
ELECTRONIC PROTECTION	0.000	0.000	0.000	22.139	0.000	22.139	-	-	-	-
IP-enabled Capability (IPEC)	6.488	6.870	25.489	35.830	0.000	35.830	-	-	-	-
Low Frequency Transmit System (LFTS)	0.000	0.000	41.205	20.433	0.000	20.433	-	-	-	-
BLOCK 40/45 BLOCK UPGRADE	191.284	178.308	245.227	164.786	0.000	164.786	-	-	-	-
Family of Beyond Line-of-Sight Terminals	27.026	43.843	4.673	24.716	0.000	24.716	-	-	-	-
Control Display Unit (CDU)	13.054	7.570	0.210	10.800	0.000	10.800	-	-	-	-
HH-60 OLR Mission Modifications	367.035	5.037	53.754	23.368	0.000	23.368	-	-	-	-
Block 162	-	43.929	1.336	15.945	0.000	15.945	-	-	-	-
DVE Sensor	0.000	0.000	11.700	13.085	0.000	13.085	-	-	-	-
Sensor Enhancements	-	-	11.271	12.680	0.000	12.680	-	-	-	-
ASIP Increment II	-	-	0.000	17.540	0.000	17.540	-	-	-	-
MC-130J Increment 2	9.243	15.461	12.257	14.418	0.000	14.418	-	-	-	-
HC-130J Situational Awareness	12.500	0.000	16.811	27.612	0.000	27.612	-	-	-	-
(AbMN) Air borne Mission Networking	-	0.000	0.000	14.692	0.000	14.692	-	-	-	-
Advanced Threat Warning System (ATW)	-	0.000	0.000	0.000	29.500	29.500	-	-	-	-
(RFCM) Radio Frequency Countermeasures	-	0.000	0.000	0.000	107.400	107.400	-	-	-	-
ATP upgrade Legacy to SE	35.117	1.033	0.821	28.735	0.000	28.735	-	-	-	-
ATP-SE Technology Insertion	0.000	36.954	0.000	15.122	0.000	15.122	-	-	-	-
DAS000 (ROBE)	-	0.000	0.000	0.000	10.381	10.381	-	-	-	-
MQ-9 Field	180.853	4.279	19.340	35.972	0.000	35.972	-	-	-	-
GCS Blk 30	84.113	55.285	16.305	10.027	0.000	10.027	-	-	-	-
Extended Range MQ-9	83.610	69.064	33.954	67.732	0.000	67.732	-	-	-	-

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 Exhibit P-1M, Procurement Programs - Modification Summary
 (Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
MQ-9 Upgrade	-	0.000	144.698	134.248	56.400	190.648	-	-	-	-
Block 20 Upgrade	130.286	56.604	61.396	58.991	0.000	58.991	-	-	-	-
Totals (Total Obligation Authority)										
Total Obligation Authority	10,299.176	2,660.677	3,060.630	3,483.743	311.831	3,795.574	0.000	0.000	0.000	0.000

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ACRONYMS

GENERAL ACRONYMS

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

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FOT&E	- Follow-on Test and Evaluation
FOC	- Fully Operational Capability
FLTS	- Flight Line Test Set
FPIF	- Fixed Price Incentive Firm
FPIS	- Fixed Price Incentive Fee, Successive Targets
FY	- Fiscal Year
GANS	- Global Access Navigation & Safety
GATM	- Global Air Traffic Management
GFE	- Government Furnished Equipment
GFP	- Government Furnished Property
GPS	- Global Positioning System
GSE	- Ground Support Equipment
ICS	- Interim Contractor Support
IOC	- Initial Operating Capability
IPE	- Increased Performance Engine
JPALS	- Joint Precision Approach and Landing System
MAIS	- Major Automated Information System Program
MDAP	- Major Defense Acquisition Program
METS	- Mobile Electronic Test Stations
MYP	- Multiyear Procurement
MSIP	- Multi-Stage Improvement Program
NAVWAR	- Navigation Warfare
NMC Rate	- Not Mission Capable Rate
OFF	- Operational Flight Program
OT&E	- Operational Test and Evaluation
OWRM	- Other War Reserve Material
PAGEL	- Priced Aerospace Ground Equipment List
PB	- President's Budget
PGSE	- Peculiar Ground Support Equipment
PMA	- Program Management Administration
PMC	- Procurement Method Code
PNO	- Acquisition Program Number (MDAP Codes)
PR	- Purchase Request
PRCP	- Program Resource Collection Process
PTT	- Part Task Trainer
PY	- Prior Year

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

BASE / ORGANIZATIONAL ACRONYMS

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

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

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CONTRACT METHOD / TYPE ACRONYMS

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

CONTRACTED BY ACRONYMS

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

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

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: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	149.245	32.157	46.729	96.727	0.000	96.727	55.764	29.386	167.232	225.326	45.370	847.936
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	149.245	32.157	46.729	96.727	0.000	96.727	55.764	29.386	167.232	225.326	45.370	847.936
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	149.245	32.157	46.729	96.727	0.000	96.727	55.764	29.386	167.232	225.326	45.370	847.936

(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 2018 are:

- MN 110056 B61-12 Integration
- MN 110065 B-2 GBU-57 MOP integration
- B-2 DMS-M APAF is covered by WSC b2dms0.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	110031 / B-2 Trainer System Upgrade (Capability Improvement)				- / 32.467	- / 2.935	- / 9.578	- / 9.082	- / -	- / 9.082
P-40a***	110032 / LINK 16/CID/IFR (Capability Improvement)				- / -	- / 0.474	- / 0.415	- / 1.718	- / -	- / 1.718
P-40a***	110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS (Reliability & Maintainability)				- / 43.151	- / -	- / 8.263	- / 8.454	- / -	- / 8.454
P-40a***	110043 / B-2 Adaptable Communications Suite (ACS) (Capability Improvement)				- / 21.037	- / -	- / 0.297	- / 0.624	- / -	- / 0.624
P-40a***	110051 / LOSSM - Structures (Reliability & Maintainability)				- / 9.088	- / 4.218	- / -	- / -	- / -	- / -
P-40a***	110052 / 110052 LOSSM - Materials (Reliability & Maintainability)				- / 4.295	- / 0.000	- / -	- / -	- / -	- / -
P-40a***	110053 / LOSSM - Diagnostics (Reliability & Maintainability)				- / 1.409	- / -	- / -	- / -	- / -	- / -
P-40a***	110054 / B-2 Flex Strike Phase 1 (Capability Improvement)				- / -	- / -	- / 4.214	- / 6.658	- / -	- / 6.658
P-40a***	99999U / B-2 Low Cost Engine Modifications (Reliability & Maintainability)				- / 18.186	- / 0.000	- / 0.703	- / 0.718	- / -	- / 0.718
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 19.612	- / 0.266	- / 0.601	- / 0.613	- / -	- / 0.613
P-3a	110056 / B61-12 Integration (Capability Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 27.514	- / 0.000	- / 27.514
P-3a	110057 / MGUE (Capability Improvement)				- / -	- / -	- / 4.066	- / 10.704	- / 0.000	- / 10.704
P-3a	110065 / B-2 GBU-57 MOP Integration (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 20.032	- / 0.000	- / 20.032
P-3a	8882 / Common Very Low Frequency Terminal (Capability Improvement)				- / 0.000	- / 24.264	- / 18.592	- / 10.610	- / 0.000	- / 10.610
P-40	Total Gross/Weapon System Cost				- / 149.245	- / 32.157	- / 46.729	- / 96.727	- / 0.000	- / 96.727

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	110031 / B-2 Trainer System Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	110032 / LINK 16/CID/IFR (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	110043 / B-2 Adaptable Communications Suite (ACS) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	110051 / LOSSM - Structures (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	110052 / 110052 LOSSM - Materials (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	110053 / LOSSM - Diagnostics (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	110054 / B-2 Flex Strike Phase 1 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999U / B-2 Low Cost Engine Modifications (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force				Date: May 2017	
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					

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	110056 / B61-12 Integration (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	110057 / MGUE (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	110065 / B-2 GBU-57 MOP Integration (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8882 / Common Very Low Frequency Terminal (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 55.764	- / 29.386	- / 167.232	- / 225.326	- / 45.370	- / 847.936

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110056 / B61-12 Integration

ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	27.514	0.000	27.514
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	27.514	0.000	27.514
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	27.514	0.000	27.514
<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 110056, B61-12 Integration, is a new start.

B-2 is the threshold platform for the B61-12 weapon supporting the Joint Department of Defense and Department of Energy, National Nuclear Security Agency B61-12 Life Extension Program (LEP). The B61-12 LEP will consolidate four B61 weapon variants into one Mod 12 weapon preserving critical capability by addressing aging and decreased reliability. The B-2 B61-12 Integration program, interdependent with B61-12 LEP, will develop the interface between the weapon and the B-2 platform.

The RDT&E effort, funded under B61-12 weapon PE 0101125F, will develop the System 2 digital nuclear interface software for the B-2 Stores Management Operational Flight Program, modify the Rotary Launch Assembly (RLA) Test Program Sets, update the technical orders, and conduct flight test. The procurement effort, funded under B-2 PE 0101127F, will purchase 54 System 2 configuration cables and modify the B-2 support systems and related support equipment. Timely completion of the B61-12 weapon development effort is essential to meet the B-2 B61-12 LEP nuclear certification in FY2019. The B-2 B61-12 integration effort cannot be fielded prior to completion of the B-2 Flexible Strike Phase 1 Stores Management Operational Flight Program software re-host effort funded under Mod 110054.

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

Milestone/Development Status

The B-2 B61-12 Integration EMD effort was awarded to NGC January 2015. The B-2 B61-12 Integration combined SRR/SFR occurred August 2015. The B-2 B61-12 Integration combined CDR/SDR occurred February 2016 with the start of developmental test beginning December 2016. The development effort is funded by the Air Force Nuclear Weapons Center, Nuclear Capabilities Directorate, PE 0101125F.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: B00200 / B-2A			Modification Number / Title: 110056 / B61-12 Integration	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Models of Systems Affected: B-2		Modification Type: Capability Improvement			Related RDT&E PEs:		
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
	Qty (Each) / Total Cost (\$ M)	Qty (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: System 2 Configuration Cable</i>							
A Kits							
Recurring							
System 2 Configuration Cable:INSTALL KITS Group A (Active)		- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000
<i>Subtotal: Recurring</i>		- / -	- / -	- / -	- / 0.000	- / -	- / 0.000
B Kits							
Recurring							
System 2 Configuration Cable:EQUIPMENT Group B (Active)		- / -	- / -	- / -	54 / 25.943	- / -	54 / 25.943
<i>Subtotal: Recurring</i>		- / -	- / -	- / -	- / 25.943	- / -	- / 25.943
<i>Subtotal: System 2 Configuration Cable</i>		- / -	- / -	- / -	- / 25.943	- / -	- / 25.943
<i>Subtotal: Procurement, All Modification Items</i>		- / -	- / -	- / -	- / 25.943	- / -	- / 25.943
Support (All Modification Items)							
PMA - Other Gov't Costs		- / -	- / -	- / -	- / 1.571	- / -	- / 1.571
<i>Subtotal: Support</i>		- / -	- / -	- / -	- / 1.571	- / -	- / 1.571
Installation							
<i>Subtotal: Installation</i>		- / -	- / -	- / -	- / -	- / -	- / -
Total							
Total Cost (Procurement + Support + Installation)		0.000	0.000	0.000	27.514	0.000	27.514

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1		P-1 Line Item Number / Title: B00200 / B-2A	
Modification Number / Title: 110056 / B61-12 Integration			
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 1: System 2 Configuration Cable			
Manufacturer Information			
Manufacturer Name: Northrop Grumman		Manufacturer Location: Palmdale, CA	
Administrative Leadtime (in Months): 0		Production Leadtime (in Months): 5	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates			Jan 2018
Delivery Dates			Jun 2018
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110057 / MGUE

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	4.066	10.704	0.000	10.704	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	4.066	10.704	0.000	10.704	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	4.066	10.704	0.000	10.704	-	-	-	-	-	-

(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 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). Initial fielding will be accomplished utilizing a 24 channel SAASM receiver. SAASM fielding keeps program on schedule with a 24 channel solution. 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.

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

Milestone/Development Status

As a threshold platform, the MGUE program is funding the B-2 integration. Initial planning was initiated with FY 2014 funds. The full integration contract was awarded in November 2015. The System Requirements Review completed August 2015. The program began developmental flight test in 2016.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110057 / MGUE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: B-2	Modification Type: Capability Improvement	Related RDT&E PEs: 0101127F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.081	9 / 0.182	- / -	9 / 0.182	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.081	- / 0.182	- / -	- / 0.182	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
Antenna Kit:EQUIPMENT Group B (Active)	- / -	- / -	6 / 3.791	9 / 7.156	- / -	9 / 7.156	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / 3.791	- / 7.156	- / -	- / 7.156	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Antenna Kit</i>	- / -	- / -	- / 3.872	- / 7.338	- / -	- / 7.338	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 3.872	- / 7.338	- / -	- / 7.338	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
PMA - Other Gov't Costs	- / -	- / -	- / 0.194	- / 0.612	- / -	- / 0.612	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / -	- / 0.194	- / 0.612	- / -	- / 0.612	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1: Antenna Kit</i>	- / -	- / -	0 / 0.000	3 / 2.754	- / -	3 / 2.754	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	- / -	- / -	0 / -	3 / 2.754	- / -	3 / 2.754	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	-	4.066	10.704	0.000	10.704	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B00200 / B-2A	Modification Number / Title: 110057 / MGUE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Aug 2017	Jun 2018				
Delivery Dates		May 2018	Jan 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	0 / 0.000	3 / 2.754	- / -	3 / 2.754	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	0 / 0.000	3 / 2.754	- / -	3 / 2.754	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	2	2	1	-	-	-	-	-	-	-	-	-	0	16
Out	0	-	-	-	-	-	-	-	-	-	-	0	3	2	2	2	2	2	2	1	-	-	-	-	-	-	-	-	-	0	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force	Date: May 2017
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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: 110065 / B-2 GBU-57 MOP Integration
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.000	0.000	20.032	0.000	20.032
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.000	0.000	20.032	0.000	20.032
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	0.000	0.000	20.032	0.000	20.032

(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 110065, B-2 GBU-57 MOP Integration, is a new start.
Procure additional Monitor and Control Equipment (MACE), the B-2 hardware controller for the GBU-57 Massive Ordnance Penetrator.

Milestone/Development Status

Development of the basic MACE is complete.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: B00200 / B-2A			Modification Number / Title: 110065 / B-2 GBU-57 MOP Integration	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Models of Systems Affected: B-2A			Modification Type: Capability Improvement			Related RDT&E PEs:	
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
	Qty (Each) / Total Cost (\$ M)	Qty (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: Monitor and Control Equipment (MACE)</i>							
A Kits							
Recurring							
Monitor and Control Equipment (MACE):INSTALL KITS Group A (Active)	- / -	- / -	- / -	7 / 16.313	- / -	7 / 16.313	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 16.313	- / -	- / 16.313	
<i>Subtotal: Monitor and Control Equipment (MACE)</i>	- / -	- / -	- / -	- / 16.313	- / -	- / 16.313	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 16.313	- / -	- / 16.313	
Support (All Modification Items)							
OTHER GOVT	- / -	- / -	- / -	- / 2.719	- / -	- / 2.719	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 1.000	- / -	- / 1.000	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 3.719	- / -	- / 3.719	
Installation							
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	
Total							
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	20.032	0.000	20.032	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1		P-1 Line Item Number / Title: B00200 / B-2A	
		Modification Number / Title: 110065 / B-2 GBU-57 MOP Integration	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 1: Monitor and Control Equipment (MACE)			
Manufacturer Information			
Manufacturer Name: Unknown		Manufacturer Location: Unknown	
Administrative Leadtime (in Months): 0		Production Leadtime (in Months): 0	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates			
Delivery Dates			
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	24.264	18.592	10.610	0.000	10.610	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	24.264	18.592	10.610	0.000	10.610	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	24.264	18.592	10.610	0.000	10.610	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	-	2.036	2.574	-	2.574	-	-	-	-	-	-
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 1Q FY 2019.

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 FY 2016 and FY 2017 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.

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

Milestone/Development Status

Common Very Low Frequency Receiver conducted a Milestone B decision in July 2013. Engineering and Manufacturing Development contracts were awarded December 2013 for Group B line replaceable units (LRUs) and June 2014 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 November 2014, and a Critical Design Review held in May 2015. Hardware qualification completed June 2016. Additionally, certifications completed June 2016 and installation of flight test hardware completed July 2016. Combined DT/OT in 4Q FY 2016. Successful Milestone C occurred December 2016.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
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				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: B-2			Modification Type: Capability Improvement				Related RDT&E PEs: 0101127F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	4 / 107.052	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 1: Antenna												
A Kits												
Recurring												
Antenna:INSTALL KITS Group A (Active)	- / -	7 / 8.666	9 / 7.859	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / 8.666	- / 7.859	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
Antenna:EQUIPMENT Group B (Active)	- / -	7 / 11.275	9 / 9.777	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / 11.275	- / 9.777	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Antenna	- / -	- / 19.941	- / 17.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Procurement, All Modification Items	- / -	- / 19.941	- / 17.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
Change Orders	- / -	- / 1.023	- / 0.956	- / 0.918	- / -	- / 0.918	- / -	- / -	- / -	- / -	- / -	- / -
SIM/TRAINER	- / -	- / 2.511	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	- / 0.789	- / -	- / 0.524	- / -	- / 0.524	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Support	- / -	- / 4.323	- / 0.956	- / 1.442	- / -	- / 1.442	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 1: Antenna												
Antenna	- / -	- / -	- / -	8 / 9.168	- / -	8 / 9.168	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Installation	- / -	- / -	- / -	8 / 9.168	- / -	8 / 9.168	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	24.264	18.592	10.610	0.000	10.610	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Feb 2017	Feb 2017					
Delivery Dates	Mar 2018	Jun 2018					

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	7 / 8.022	- / -	7 / 8.022	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	1 / 1.146	- / -	1 / 1.146	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	8 / 9.168	- / -	8 / 9.168	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	0	16
Out	0	-	-	-	-	-	-	-	-	2	2	2	1	2	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	0	16

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	776.972	114.119	150.319	155.634	0.000	155.634	103.234	93.664	123.313	86.369	0.000	1,603.624
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	776.972	114.119	150.319	155.634	0.000	155.634	103.234	93.664	123.313	86.369	0.000	1,603.624
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	776.972	114.119	150.319	155.634	0.000	155.634	103.234	93.664	123.313	86.369	0.000	1,603.624

(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 7,799 airframe hours as of July, 2016 (Source LIMS-EV). 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.

FY17 and FY18 funding increased for Engine SLEP.

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: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	4281 / Self Contained Attitude Indicator (Capability Improvement)				- / -	- / 6.562	- / -	- / -	- / -	- / -
P-40a***	4291 / B-1 TRAINING SUPPORT (Capability Improvement)				- / 2.109	- / 0.434	- / 0.438	- / 0.448	- / -	- / 0.448
P-40a***	6882 / Digital Communications (Other)				- / 38.984	- / 0.100	- / -	- / -	- / -	- / -
P-40a***	8423 / B-1 Link 16 Crypto (Other)				- / 0.223	- / 1.011	- / 1.380	- / 0.100	- / -	- / 0.100
P-40a***	92294 / LAPTOP CONTROLLED TARGETING POD (Capability Improvement)				- / 72.337	- / 4.634	- / 0.200	- / 6.401	- / -	- / 6.401
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 4.972	- / 0.101	- / 0.100	- / 1.400	- / -	- / 1.400
P-3a	4280 / Fully Integrated Data Links (Capability Improvement)				- / 272.053	- / 42.462	- / 56.773	- / 50.032	- / 0.000	- / 50.032
P-3a	4284 / CITS UPGRADE (Service Life Extension)				- / 72.381	- / 16.000	- / 14.637	- / 15.993	- / 0.000	- / 15.993
P-3a	8971 / VERTICAL SITUATION DISPLAYS (Service Life Extension)				- / 156.235	- / 38.715	- / 42.791	- / 47.260	- / 0.000	- / 47.260
P-3a	92299 / F-101 Engine SLEP (Service Life Extension)				- / 157.678	- / 4.100	- / 34.000	- / 34.000	- / 0.000	- / 34.000
P-40	Total Gross/Weapon System Cost				- / 776.972	- / 114.119	- / 150.319	- / 155.634	- / 0.000	- / 155.634

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	4281 / Self Contained Attitude Indicator (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	4291 / B-1 TRAINING SUPPORT (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6882 / Digital Communications (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8423 / B-1 Link 16 Crypto (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	92294 / LAPTOP CONTROLLED TARGETING POD (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	4280 / Fully Integrated Data Links (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	4284 / CITS UPGRADE (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8971 / VERTICAL SITUATION DISPLAYS (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	92299 / F-101 Engine SLEP (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 103.234	- / 93.664	- / 123.313	- / 86.369	- / 0.000	- / 1,603.624

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 4280 / Fully Integrated Data Links

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	272.053	42.462	56.773	50.032	0.000	50.032	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	272.053	42.462	56.773	50.032	0.000	50.032	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	272.053	42.462	56.773	50.032	0.000	50.032	-	-	-	-	-	-

(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). This program element may include necessary civilian pay expenses required to manage, execute, and deliver B-1 IBS weapon system capability.

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: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B01B00 / B-1B					Modification Number / Title: 4280 / Fully Integrated Data Links			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: B-1B				Modification Type: Capability Improvement				Related RDT&E PEs: 0101126F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
Modification Item 1 of 1: IBS													
A Kits													
Recurring													
IBS:INSTALL KITS Group A (Active)	46 / 20.706	14 / 5.669	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 20.706	- / 5.669	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
IBS:EQUIPMENT Group B (Active)	46 / 109.252	14 / 26.922	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 109.252	- / 26.922	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: IBS	- / 129.958	- / 32.591	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Procurement, All Modification Items	- / 129.958	- / 32.591	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 37.621	- / -	- / 2.750	- / 2.052	- / -	- / 2.052	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / 17.058	- / -	- / 13.576	- / 2.823	- / -	- / 2.823	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / 2.426	- / -	- / 0.011	- / 0.011	- / -	- / 0.011	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	2 / 5.771	- / -	4 / 3.462	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / 28.714	- / -	- / 12.869	- / 1.396	- / -	- / 1.396	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Material	- / 8.300	- / -	- / 7.514	- / 8.047	- / -	- / 8.047	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / 12.334	- / -	- / 6.116	- / 22.864	- / -	- / 22.864	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / 5.598	- / -	- / -	- / 1.672	- / -	- / 1.672	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / 0.268	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Support	2 / 118.090	- / 0.100	4 / 46.398	- / 38.965	- / -	- / 38.965	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
Modification Item 1 of 1: IBS	20 / 24.005	10 / 9.771	10 / 10.375	10 / 11.067	- / -	10 / 11.067	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Installation	20 / 24.005	10 / 9.771	10 / 10.375	10 / 11.067	- / -	10 / 11.067	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	272.053	42.462	56.773	50.032	0.000	50.032	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

Modification Item 1 of 1: IBS

Manufacturer Information

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

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Feb 2016						
Delivery Dates	Oct 2017						

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 24.005	10 / 9.771	10 / 10.375	6 / 6.603	- / -	6 / 6.603	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	4 / 4.464	- / -	4 / 4.464	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	20 / 24.005	10 / 9.771	10 / 10.375	10 / 11.067	- / -	10 / 11.067	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	3	2	3	2	2	3	2	3	2	3	2	3	2	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-	0	60
Out	15	3	2	3	2	3	3	2	2	3	2	3	2	3	2	3	2	3	2	-	-	-	-	-	-	-	-	-	-	0	60

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 4284 / CITS UPGRADE

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	72.381	16.000	14.637	15.993	0.000	15.993	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	72.381	16.000	14.637	15.993	0.000	15.993	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	72.381	16.000	14.637	15.993	0.000	15.993	-	-	-	-	-	-

(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:

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). This program element may include necessary civilian pay expenses required to manage, execute, and deliver B-1 IBS weapon system capability.

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: FY 2018 Air Force										Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B01B00 / B-1B						Modification Number / Title: 4284 / CITS UPGRADE		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: B-1B				Modification Type: Service Life Extension				Related RDT&E PEs: 0101126F				
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 49.635	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 1: IBS (2)												
A Kits												
Recurring												
IBS:INSTALL KITS Group A (Active)	46 / 4.386	14 / 1.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 4.386	- / 1.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
IBS:EQUIPMENT Group B (Active)	46 / 20.299	14 / 4.047	- / 0.641	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 20.299	- / 4.047	- / 0.641	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: IBS (2)	- / 24.685	- / 5.048	- / 0.641	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Procurement, All Modification Items	- / 24.685	- / 5.048	- / 0.641	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / 16.575	- / 1.100	- / 1.269	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Change Orders	- / 2.458	- / 0.625	- / 0.772	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Data	- / 1.304	- / 0.011	- / 0.011	- / 0.011	- / -	- / 0.011	- / -	- / -	- / -	- / -	- / -	- / -
SIM/TRAINER	4 / 2.677	- / -	2 / 1.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP	- / 9.577	- / -	- / 1.746	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
ICS-Material	- / 1.671	- / 0.895	- / 1.139	- / 1.707	- / -	- / 1.707	- / -	- / -	- / -	- / -	- / -	- / -
OTHER GOVT	- / 2.621	- / 0.446	- / 0.250	- / 7.312	- / -	- / 7.312	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Contractor Services	- / -	- / 0.983	- / 2.289	- / 1.406	- / -	- / 1.406	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / 0.080	- / 0.666	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Support	4 / 36.963	- / 4.726	2 / 8.826	- / 10.436	- / -	- / 10.436	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 1: IBS (2)	20 / 10.733	10 / 6.226	10 / 5.170	10 / 5.557	- / -	10 / 5.557	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Installation	20 / 10.733	10 / 6.226	10 / 5.170	10 / 5.557	- / -	10 / 5.557	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	72.381	16.000	14.637	15.993	0.000	15.993	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 4284 / CITS UPGRADE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Feb 2016						
Delivery Dates	Oct 2017						

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 10.733	10 / 6.226	10 / 5.170	6 / 3.334	- / -	6 / 3.334	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	4 / 2.223	- / -	4 / 2.223	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	20 / 10.733	10 / 6.226	10 / 5.170	10 / 5.557	- / -	10 / 5.557	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	3	2	3	2	2	3	2	3	2	3	2	3	2	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-	0	60
Out	10	5	2	3	2	3	3	2	3	2	3	2	3	2	3	2	3	2	3	2	-	-	-	-	-	-	-	-	-	0	60

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	156.235	38.715	42.791	47.260	0.000	47.260	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	156.235	38.715	42.791	47.260	0.000	47.260	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	156.235	38.715	42.791	47.260	0.000	47.260	-	-	-	-	-	-

(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:

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). This program element may include necessary civilian pay expenses required to manage, execute, and deliver B-1 IBS weapon system capability.

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: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B01B00 / B-1B				Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: B-1B			Modification Type: Service Life Extension				Related RDT&E PEs: 0101126F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 1: IBS (3)												
A Kits												
Recurring												
IBS:INSTALL KITS Group A (Active)	46 / 11.449	14 / 3.429	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 11.449	- / 3.429	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
IBS:EQUIPMENT Group B (Active)	46 / 53.237	14 / 15.946	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 53.237	- / 15.946	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: IBS (3)	- / 64.686	- / 19.375	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Procurement, All Modification Items	- / 64.686	- / 19.375	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / 13.864	- / 0.289	- / -	- / 0.750	- / -	- / 0.750	- / -	- / -	- / -	- / -	- / -	- / -
Change Orders	- / 5.676	- / 2.808	- / 10.474	- / 2.541	- / -	- / 2.541	- / -	- / -	- / -	- / -	- / -	- / -
Data	- / 1.518	- / -	- / 0.011	- / 0.011	- / -	- / 0.011	- / -	- / -	- / -	- / -	- / -	- / -
SIM/TRAINER	1 / 3.686	- / -	1 / 1.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP	- / 10.143	- / 1.700	- / 6.504	- / 2.438	- / -	- / 2.438	- / -	- / -	- / -	- / -	- / -	- / -
ICS-Material	- / 5.848	- / 1.376	- / 4.716	- / 5.153	- / -	- / 5.153	- / -	- / -	- / -	- / -	- / -	- / -
OTHER GOVT	- / 20.000	- / 0.572	- / 3.188	- / 21.862	- / -	- / 21.862	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Contractor Services	- / 2.820	- / -	- / 3.242	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / 0.411	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Support	1 / 63.966	- / 6.745	1 / 29.411	- / 32.755	- / -	- / 32.755	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 1: IBS (3)	20 / 27.583	10 / 12.595	10 / 13.380	10 / 14.505	- / -	10 / 14.505	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Installation	20 / 27.583	10 / 12.595	10 / 13.380	10 / 14.505	- / -	10 / 14.505	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	156.235	38.715	42.791	47.260	0.000	47.260	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS

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

Manufacturer Information

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

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Feb 2016	Feb 2017					
Delivery Dates	Oct 2017	Oct 2018					

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 27.583	10 / 12.595	10 / 13.380	6 / 8.703	- / -	6 / 8.703	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	4 / 5.802	- / -	4 / 5.802	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	20 / 27.583	10 / 12.595	10 / 13.380	10 / 14.505	- / -	10 / 14.505	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	3	2	3	2	2	3	2	3	2	3	2	3	2	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-	0	60
Out	15	3	2	3	2	3	3	2	2	3	2	3	2	3	2	3	2	3	2	-	-	-	-	-	-	-	-	-	-	0	60

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B01B00 / B-1B	Modification Number / Title: 92299 / F-101 Engine SLEP

ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	157.678	4.100	34.000	34.000	0.000	34.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	0.000	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	157.678	4.100	34.000	34.000	0.000	34.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	0.000	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	157.678	4.100	34.000	34.000	0.000	34.000
<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>)	0.000	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-

Description:

The B-1B strategic bomber is powered by four F101-GE-102 engines. The B-1B bomber entered service in 1984 and is now projected to remain in the force structure to 2040. The F101-GE-102 Service Life Extension Program (SLEP) modification is required for the full fleet of 289 engines due to continuous exposure to efficiency degrading environments during B-1B deployments to hot and harsh AORs within the last 10 years. The F101-GE-102 SLEP modification is designed to reconstitute the engine and enable it to meet the extension of the aircraft structure life requirements. The SLEP modification almost doubles the time on wing (1.7x), reduces total ownership costs (cost per flying hour) and decreases maintenance removals. The engine type model series will change from an F101-GE-102 to and F101-GE-102A. FY14 Aircraft Procurement Air Force (APAF) and FY15 Other Contingency Operations (OCO) APAF and FY16 OCO fund 85% of the full fleet requirement. Actual costs have proven lower than the Air Force Program Office Estimate enabling a procurement of 243 kits out of the 289 kits on the initial delivery order. There remains a requirement for 45 additional kits to complete the F101-GE-102 SLEP modification.

Milestone/Development Status

Milestone/Development Status

MS C/Full Rate Production achieved March 2015

GE Aviation has a 15 month production lead time and will produce 10 kits per month. Deliveries began Q3/FY16 and organic/intermediate level installations will began early Q2/FY17 working towards 10 per month. Installation of 240 kits procured with FY14 APAF and FY15 OCO APAF and FY16 OCO funds will be completed in Q3/FY19.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1			P-1 Line Item Number / Title: B01B00 / B-1B		Modification Number / Title: 92299 / F-101 Engine SLEP	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: F101		Modification Type: Service Life Extension		Related RDT&E PEs:		
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Qty (Each) / Total Cost (\$ M)	Qty (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: F101 SLEP KIT</i>						
B Kits						
Recurring						
F101 SLEP KIT:EQUIPMENT Group B (Active)	236 / 154.244	6 / 3.848	45 / 29.118	45 / 29.118	- / -	45 / 29.118
<i>Subtotal: Recurring</i>	- / 154.244	- / 3.848	- / 29.118	- / 29.118	- / -	- / 29.118
<i>Subtotal: F101 SLEP KIT</i>	- / 154.244	- / 3.848	- / 29.118	- / 29.118	- / -	- / 29.118
<i>Subtotal: Procurement, All Modification Items</i>	- / 154.244	- / 3.848	- / 29.118	- / 29.118	- / -	- / 29.118
Support (All Modification Items)						
Change Orders	- / 0.750	- / -	- / 0.500	- / 0.500	- / -	- / 0.500
Data	- / 0.534	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP	- / 1.400	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / 0.750	- / 0.252	- / 0.250	- / 0.250	- / -	- / 0.250
OTHER GOVT	- / -	- / -	- / 4.132	- / 4.132	- / -	- / 4.132
<i>Subtotal: Support</i>	- / 3.434	- / 0.252	- / 4.882	- / 4.882	- / -	- / 4.882
Installation						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)	157.678	4.100	34.000	34.000	0.000	34.000

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1		P-1 Line Item Number / Title: B01B00 / B-1B	
Modification Number / Title: 92299 / F-101 Engine SLEP			
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 1: F101 SLEP KIT			
Manufacturer Information			
Manufacturer Name: General Electric		Manufacturer Location: Evandale, OH	
Administrative Leadtime (in Months): 1		Production Leadtime (in Months): 15	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates	Apr 2016	Sep 2017	Nov 2017
Delivery Dates	Jul 2017	Dec 2018	Feb 2019
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 377	

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	329.746	135.532	109.020	109.295	0.000	109.295	131.669	128.664	131.290	104.008	0.000	1,179.224
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	329.746	135.532	109.020	109.295	0.000	109.295	131.669	128.664	131.290	104.008	0.000	1,179.224
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	329.746	135.532	109.020	109.295	0.000	109.295	131.669	128.664	131.290	104.008	0.000	1,179.224

(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 17,867 airframe hours as of July, 2016 (Source: LIMS-EV). Modifications budgeted and programmed include B-52 Combat Network Communications Technology and B-52 Internal Weapons Bay Upgrade.

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 one other PE, Maintenance Trainer Modifications (PE 0809731F).

Funds are included to accommodate the FAA mandate for ADS-B as outlined throughout previous AF and DoD budget exhibits.

B-52 CONECT reduced by \$7.0M in FY16 to account for Congressional Mark.
B-52 Training Support To Units reduced by -\$2.380M in FY16 for higher Air Force priorities.

B-52 CONECT re-phased \$21.3M in FY18 to FY19 for better program execution.
B-52 1760 Internal Weapons Bay Upgrade (IWBU) re-phased \$2.7M in FY18 to FY19 for better program execution.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	119.138	92.826	90.585	-	90.585	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	16.394	16.194	18.710	-	18.710	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force							Date: May 2017		
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									

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	135.532	109.020	109.295	-	109.295	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	3265 / B-52 Anti-Skid Replacement (Reliability & Maintainability)				- / 17.637	- / 0.883	- / 0.889	- / 0.909	- / -	- / 0.909
P-40a***	6885 / AETC Trainers (B-52) (Other)				- / 4.584	- / 0.010	- / 2.406	- / 2.460	- / -	- / 2.460
P-40a***	6888 / B-52 New Start Treaty (Other)				- / 1.433	- / 0.099	- / 0.196	- / -	- / -	- / -
P-40a***	6891 / B-52 WST AR Upgrade Trainer (Capability Improvement)				- / -	- / -	- / -	- / 1.809	- / -	- / 1.809
P-40a***	6892 / B-52 Low Cost Improvements (Capability Improvement)				- / -	- / -	- / 2.331	- / 2.378	- / -	- / 2.378
P-40a***	9709 / B-52 Mode S/5 (Capability Improvement)				- / 22.069	- / 2.488	- / -	- / -	- / -	- / -
P-40a***	99999X / B-52 Low Cost Mods (Other)				- / 1.044	- / 0.436	- / 0.439	- / 0.450	- / -	- / 0.450
P-3a	3310 / B-52 Combat Network Communications Technology (Capability Improvement)				- / 275.133	- / 117.144	- / 99.068	- / 74.355	- / 0.000	- / 74.355
P-3a	6884 / B-52 Internal Weapons Bay Upgrade (Capability Improvement)				- / 7.846	- / 14.472	- / 3.691	- / 26.934	- / 0.000	- / 26.934
P-40	Total Gross/Weapon System Cost				- / 329.746	- / 135.532	- / 109.020	- / 109.295	- / 0.000	- / 109.295

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	3265 / B-52 Anti-Skid Replacement (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6885 / AETC Trainers (B-52) (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6888 / B-52 New Start Treaty (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6891 / B-52 WST AR Upgrade Trainer (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	6892 / B-52 Low Cost Improvements (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9709 / B-52 Mode S/5 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / B-52 Low Cost Mods (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	3310 / B-52 Combat Network Communications Technology (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	6884 / B-52 Internal Weapons Bay Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 131.669	- / 128.664	- / 131.290	- / 104.008	- / 0.000	- / 1,179.224

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 3310 / B-52 Combat Network Communications Technology

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	275.133	117.144	99.068	74.355	0.000	74.355	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	275.133	117.144	99.068	74.355	0.000	74.355	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	275.133	117.144	99.068	74.355	0.000	74.355	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	-	4.561	4.602	-	4.602	-	-	-	-	-	-
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 CONNECT training device upgrades provide full CONNECT functionality to support aircrew training. The Aircrew Training Devices (ATDs) include three B-52 Weapon System Trainers (WST) and two Offensive Station Mission Trainers (OSMT), and the upgrades will also be installed in the Systems Integration Lab (SIL). The Other Government Cost line includes, but is not limited to, Diminishing Manufacturing Sources (DMS) costs to maintain the production configuration through the identification, review and monitoring of items with high obsolescence risk potential, classification of identified items according to criticality, identification of alternatives and implementation of resolutions. Resolutions may include non-recurring engineering (NRE) and/or replacement costs for DMS components, bridge buys of DMS components until NRE can be completed or Life of Type buys, whichever is most appropriate. 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. Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues. DMS efforts to include removal of end-of-life software/hardware within simulators systems and move to a modular, common open system architecture that is sustainable and cyber-resilient. Implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative.

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

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

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.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 3310 / B-52 Combat Network Communications Technology

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

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	100.750	85.262	60.649	-	60.649	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	16.394	13.806	13.706	-	13.706	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	117.144	99.068	74.355	0.000	74.355	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1					P-1 Line Item Number / Title: B05200 / B-52					Modification Number / Title: 3310 / B-52 Combat Network Communications Technology			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: B-52H				Modification Type: Capability Improvement				Related RDT&E PEs: 0101113F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
Modification Item 1 of 1: CONECT Kit													
A Kits													
Recurring													
CONECT Kit:INSTALL KITS Group A (Active)	29 / 24.343	12 / 9.193	9 / 7.174	6 / 5.362	- / -	6 / 5.362	- / -	- / -	- / -	- / -	- / -	- / -	
CONECT Kit:INSTALL KITS Group A (Reserve)	6 / 6.316	4 / 2.955	4 / 3.189	4 / 3.574	- / -	4 / 3.574	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 30.659	- / 12.148	- / 10.363	- / 8.936	- / -	- / 8.936	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
CONECT Kit:EQUIPMENT Group B (Active)	29 / 83.219	12 / 27.466	9 / 14.248	6 / 8.771	- / -	6 / 8.771	- / -	- / -	- / -	- / -	- / -	- / -	
CONECT Kit:EQUIPMENT Group B (Reserve)	6 / 15.722	4 / 9.155	4 / 6.333	4 / 5.848	- / -	4 / 5.848	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 98.941	- / 36.621	- / 20.581	- / 14.619	- / -	- / 14.619	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: CONECT Kit	- / 129.600	- / 48.769	- / 30.944	- / 23.555	- / -	- / 23.555	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Procurement, All Modification Items	- / 129.600	- / 48.769	- / 30.944	- / 23.555	- / -	- / 23.555	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 5.199	- / 0.424	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
GROUP B: TOTAL NONRECURRING	- / 27.336	- / 1.313	- / 5.260	- / 6.104	- / -	- / 6.104	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / 9.353	- / 4.600	- / 5.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / 0.465	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	- / -	- / -	0 / 4.504	0 / 10.824	- / -	0 / 10.824	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / 17.281	- / 16.831	- / 15.595	- / 3.472	- / -	- / 3.472	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / 42.362	- / 12.166	- / 6.958	- / 7.539	- / -	- / 7.539	- / -	- / -	- / -	- / -	- / -	- / -	
GFP	- / 8.581	- / 2.859	- / 1.800	- / 1.400	- / -	- / 1.400	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / 22.764	- / 6.620	- / 10.000	- / 4.325	- / -	- / 4.325	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Support	- / 133.341	- / 44.813	0 / 49.917	0 / 33.664	- / -	0 / 33.664	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
Modification Item 1 of 1: CONECT Kit	11 / 12.192	15 / 23.562	17 / 18.207	16 / 17.136	- / -	16 / 17.136	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Installation	11 / 12.192	15 / 23.562	17 / 18.207	16 / 17.136	- / -	16 / 17.136	- / -	- / -	- / -	- / -	- / -	- / -	
Total													

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 3310 / B-52 Combat Network Communications Technology

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: B-52H	Modification Type: Capability Improvement	Related RDT&E PEs: 0101113F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	275.133	117.144	99.068	74.355	0.000	74.355	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 3310 / B-52 Combat Network Communications Technology

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

Manufacturer Information

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

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	May 2016	May 2017	May 2018				
Delivery Dates	Feb 2017	Feb 2018	Feb 2019				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 12.192	15 / 23.562	9 / 9.639	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	8 / 8.568	8 / 8.568	- / -	8 / 8.568	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	8 / 8.568	- / -	8 / 8.568	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 12.192	15 / 23.562	17 / 18.207	16 / 17.136	- / -	16 / 17.136	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	3	3	4	5	4	4	4	5	4	3	4	5	3	3	1	2	3	1	1	1	-	-	-	-	-	-	-	-	0	74
Out	5	2	2	3	3	4	4	5	4	4	4	4	4	4	4	5	3	3	2	3	2	-	-	-	-	-	-	-	-	0	74

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6884 / B-52 Internal Weapons Bay Upgrade

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	7.846	14.472	3.691	26.934	0.000	26.934	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	7.846	14.472	3.691	26.934	0.000	26.934	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	7.846	14.472	3.691	26.934	0.000	26.934	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	1.093	0.944	0.813	-	0.813	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This modification integrates MIL-STD-1760 into the Internal Weapons Bay on 78 B-52H aircraft, which includes two Ground Instructional Training Aircraft (GITA). This project utilizes 44 Common Strategic Rotary Launchers (CSRLs) converted into Conventional Rotary Launchers (CRLs), where three of the CRLs will be modified under Engineering, Manufacturing, and Development (EMD) for test purposes thus resulting in a production quantity of 41 CRLs. This project includes associated changes to training and support equipment, alternate mission equipment (rotary launchers) technical data, and procurement of initial spares. An incremental acquisition strategy is being employed for this modification due to technical maturity. Increment 1.0 adds internal carriage for eight weapons and consists of two sub increments 1.1 and 1.2. This requirement was validated by the Air Force Requirements for Operational Capabilities Council (AFROCC), with a signed Capability Development Document (CDD) in June 2013 and a Capability Production Document (CPD) in February 2015. This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0101113F.

Increment 1.1: Consists of internal carriage of eight Joint Direct Attack Munitions (JDAM) and variants, to include Laser JDAM (LJDAM), on a rotary launcher. Additionally, this increment develops the capability for external carriage for 16 LJDAM. The CRL Hardware modification consists of Group A (equipment racks and electrical wiring) and Group B (one Survivability/Vulnerability (SV) junction box and one Integrated Weapons Interface Unit (IWIU) per CRL). The IWIU Line Replaceable Unit (LRU) was previously developed under the Advanced Weapons Integration (AWI) project. Preliminary integration activities work was previously accomplished during a 2005 demonstration and developed using 2006 and 2007 Congressional Add funding. No CSRL replacements will be required as a result of this program.

Aircraft Hardware Modification: None

Software Modification: Consists of installation of aircraft Operational Flight Program (OFP) software, JDAM Stores Management Overlays (SMO) and ground based Joint Mission Planning System (JMPS).

CRL Hardware Modification: Consists of Group A (equipment racks and electrical wiring) and Group B (one SV junction box and one IWIU per CRL).

Support Equipment: Procurement of rotary launcher cable adapters sets for all 38 Multi-Use System Tester Armament Next Generation (MUSTANG) testers to interface with the CRL.

Increment 1.1 aircraft breakdown description: FY15 will modify six CSRLs to CRLs and install software into all 76 B-52H aircraft. The Full Rate Production Contract awarded June 2016 for CRL kit fabrication (35) contract for delivery. The CFT contract awarded in December 2016 for install in FY17-18.

Increment 1.2: Increment 1.2 develops the capability for internal carriage of eight Joint Air-to-Surface Standoff Missiles (JASSM) and its variants, to include JASSM-Extended Range (JASSM-ER), and eight Miniature Air Launched Decoys (MALD) and its variants, to include MALD Jammer (MALD-J). This increment also develops the capability for external carriage for 12 JASSM-ER.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6884 / B-52 Internal Weapons Bay Upgrade
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>Aircraft Hardware Modification: Consists of installation of Group A wiring and circuit breakers to supply additional power to the CRL for all B-52H (78) aircraft and 44 Conventional Rotary Launchers.</p> <p>Software Modification: Consists of installation of aircraft and weapon software updates to allow for internal and external carriage.</p> <p>CRL Hardware Modification: Production of Group A associated interface hardware and two Group B LRUs (power supply and power distribution box).</p> <p>Support Equipment: Procurement of 12 Rotary Launcher Loader Sets, 41 Rotary Launcher Maintenance Stands, and modification of all 38 MUSTANG testers.</p> <p>Increment 1.2 aircraft breakdown description: FY18 will procure long lead parts for CRL kits, aircraft kits, support equipment and spares. Lot I will be procured in FY18 including 21 Group A CRL kits, 40 Group A B-52H aircraft kits, support equipment and spares. FY19 will procure Lot II including 20 Group B CRL kits, procure and install 35 Group A B-52H aircraft kits, and remaining support equipment. The installations will be in FY19 and FY20 with FY18 and 19 funding. Software will be installed on the 75 modified aircraft.</p> <p>Long Lead parts permission was requested in August 2016 to release an RFP in FY17 and award long lead in FY18; approval was granted in October 2016. In addition, a delta ASP was held in August 2016 to change from competitive to sole source strategy and to request a change from Low Rate Initial Production (LRIP)/Full Rate Production (FRP) to FRP only strategy with 2 lot buys, 1 in FY18 and 1 in FY19. Approval was granted in October 2016.</p> <p>For the overall production program, total funded (157) includes the 41 modified CRLs (CRLs modified in both 1.1 and 1.2 increments) and the 75 modified B-52H aircraft, which includes two GITA aircraft. The three 1.1 and 1.2 Full CRLs and one Interim CRL and three 1.2 Full aircraft are funded during EMD and are not included in this total.</p> <p>To address the validation errors: the 1760 kits have an 11 month or greater lead time, thus installs cannot be achieved in the same year as kits are purchased. IDECS produces system errors if kits are not bought and purchased in the same year.</p> <p>The 1760 1.1 and 1.2 Program is broken out to show the various installs for CRLs and a/c installs via PDM or CFT, and these occur at different times during the programs. The IDECS system does not recognize that 1.2 aircraft installs are broken into 2 methods of installations via Depot and CFT. Thus, resulting in an error showing total input does not match total funded. The combination of Depot and CFT does total to 75 a/c. It is a much more logical approach to show the separation between the various 1.2 installations methods.</p> <p>Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues</p> <p>Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.</p> <p>Milestone/Development Status</p> <p>Development began in FY11.</p> <p>For Increment 1.1, Preliminary Design Review (PDR) occurred in February 2013. The EMD contract was awarded in September 2013, which will produce three CRLs for test purposes. Critical Design Review (CDR) occurred in October 2013. LRIP lot 1, Long Lead Component Buy, was awarded in Aug 2014. Increment 1.1 developmental flight testing began in March 2015 and completed in November 2015. Full Rate Production Briefing was held November 2015 and contract award in June 2016. CFT contract awarded in December 2016 with an option award in March 2017.</p> <p>For Increment 1.2, Acquisition Strategy Panel approval was granted in June 2014. TMRR contract awarded April 2015. PDR occurred in October 2015. The EMD option was exercised January 2016 and will run thru Q4 FY18. EMD will result in 3 prototype CRLs and 3 prototype aircraft. CDR occurred in March 2016. Milestone B approval was granted April 2016 after a follow up Milestone B briefing held March 2016. Long lead parts RFP and kit RFP release permission was requested to the MDA in August 2016 to release RFPs in FY17 and award long lead parts in FY18; approval was granted in October 2016. In addition, a</p>		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6884 / B-52 Internal Weapons Bay Upgrade

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**
 delta ASP was held in August 2016 to change from competitive to sole source strategy and to request a change from Low Rate Initial Production (LRIP)/Full Rate Production (FRP) to FRP only strategy with 2 lot buys, 1 in FY18 and 1 in FY19. Approval was granted in October 2016. Milestone C is estimated for July 2018.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.472	3.691	21.930	-	21.930	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	5.004	-	5.004	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	14.472	3.691	26.934	0.000	26.934	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1				P-1 Line Item Number / Title: B05200 / B-52				Modification Number / Title: 6884 / B-52 Internal Weapons Bay Upgrade				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: B-52H			Modification Type: Capability Improvement				Related RDT&E PEs: 0101113F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	6 / 119.557	- / 60.265	- / 34.634	- / 15.128	- / -	- / 15.128	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 3: 1760 Inc. 1.1 CRL Kit												
A Kits												
Recurring												
1760 Inc. 1.1 CRL Kit:INSTALL KITS Group A (Active)	6 / 5.965	35 / 11.161	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 5.965	- / 11.161	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: 1760 Inc. 1.1 CRL Kit</i>	- / 5.965	- / 11.161	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 3: 1760 Inc. 1.2 Acft Kit												
A Kits												
Recurring												
1760 Inc. 1.2 Acft Kit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	22 / 6.116	- / -	22 / 6.116	- / -	- / -	- / -	- / -	- / -	- / -
1760 Inc. 1.2 Acft Kit:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	18 / 5.004	- / -	18 / 5.004	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 11.120	- / -	- / 11.120	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: 1760 Inc. 1.2 Acft Kit</i>	- / -	- / -	- / -	- / 11.120	- / -	- / 11.120	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 3 of 3: 1760 Inc. 1.2 CRL Kit												
A Kits												
Recurring												
1760 Inc. 1.2 CRL Kit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	21 / 7.050	- / -	21 / 7.050	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 7.050	- / -	- / 7.050	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: 1760 Inc. 1.2 CRL Kit</i>	- / -	- / -	- / -	- / 7.050	- / -	- / 7.050	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / 5.965	- / 11.161	- / -	- / 18.170	- / -	- / 18.170	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
Change Orders	- / 0.359	- / 1.301	- / 1.183	- / 1.567	- / -	- / 1.567	- / -	- / -	- / -	- / -	- / -	- / -
Data	- / 0.231	- / 0.032	- / 0.500	- / 0.067	- / -	- / 0.067	- / -	- / -	- / -	- / -	- / -	- / -
OTHER GOVT	- / -	- / -	- / 0.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP	- / 0.000	- / 0.335	- / -	- / 16.493	- / -	- / 16.493	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / 0.024	- / 1.057	- / 0.968	- / 0.637	- / -	- / 0.637	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / 0.614	- / 2.725	- / 2.691	- / 8.764	- / -	- / 8.764	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6884 / B-52 Internal Weapons Bay Upgrade

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: B-52H	Modification Type: Capability Improvement	Related RDT&E PEs: 0101113F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 3:</i> 1760 Inc. 1.1 CRL Kit	1 / 1.267	5 / 0.586	17 / 1.000	18 / 0.000	- / -	18 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	1 / 1.267	5 / 0.586	17 / 1.000	18 / -	- / -	18 / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	7.846	14.472	3.691	26.934	0.000	26.934	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6884 / B-52 Internal Weapons Bay Upgrade

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 3: 1760 Inc. 1.1 CRL Kit

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Oklahoma City, OK
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 11

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jun 2016						
Delivery Dates	May 2017						

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 1.267	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	5 / 0.586	17 / 1.000	18 / 0.000	- / -	18 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 1.267	5 / 0.586	17 / 1.000	18 / 0.000	- / -	18 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	5	-	-	-	-	-	5	12	12	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	41
Out	1	5	-	-	-	-	-	5	12	12	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	41

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6884 / B-52 Internal Weapons Bay Upgrade

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 2 of 3: 1760 Inc. 1.2 Acft Kit

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Oklahoma City, OK
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 11

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Mar 2018				
Delivery Dates			Feb 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	12	13	4	-	-	-	-	-	-	-	-	0	65
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	12	12	12	12	8	-	-	-	-	-	-	-	-	0	65

Method of Implementation: Depot

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	2	-	-	-	-	-	-	-	-	-	-	-	0	10
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	3	2	-	-	-	-	-	-	-	-	0	10

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1	P-1 Line Item Number / Title: B05200 / B-52	Modification Number / Title: 6884 / B-52 Internal Weapons Bay Upgrade

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 3 of 3: 1760 Inc. 1.2 CRL Kit

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Oklahoma City, OK
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 11

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Mar 2018				
Delivery Dates			Feb 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	12	12	8	-	-	-	-	-	-	-	-	-	-	0	41
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	12	12	8	-	-	-	-	-	-	-	-	-	-	0	41

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	191.188	84.335	135.801	4.046	0.000	4.046	0.000	0.000	0.000	0.000	0.000	415.370
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	191.188	84.335	135.801	4.046	0.000	4.046	0.000	0.000	0.000	0.000	0.000	415.370
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	191.188	84.335	135.801	4.046	0.000	4.046	0.000	0.000	0.000	0.000	0.000	415.370

(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: FY 2018 Air Force		Date: May 2017
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		
FY17 funding totals include \$135.8M for Overseas Contingency Operations.		
Funding may be used to address Diminishing Manufacturing Sources issues.		
Funding for this exhibit contained in PE 0401134F.		
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: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	816.255	0.000	63.639	6.010	0.000	6.010	19.530	10.313	2.100	0.000	0.000	917.847
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	816.255	0.000	63.639	6.010	0.000	6.010	19.530	10.313	2.100	0.000	0.000	917.847
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	816.255	0.000	63.639	6.010	0.000	6.010	19.530	10.313	2.100	0.000	0.000	917.847

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

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

Description:

This line item funds 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.

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.

ADS-B Out, Mod 9809, is an FY18 new start.

This effort will ensure the A-10 platform complies with FAA rule 14 CFR part 91 mandating all Civilian and Military aircraft to provide AUTOMATIC DEPENDENT SURVEILLANCE - BROADCAST (ADS-B) Out surveillance. ADS-B Out is an FAA mandate to meet future air traffic demands and improve air traffic safety. This requirement was identified and approval for the A-10 by means of an AF Form 1067 dated 15 September 2006.

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: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,197.135	596.932	105.685	417.193	0.000	417.193	587.382	784.896	840.440	556.045	647.809	6,733.517
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,197.135	596.932	105.685	417.193	0.000	417.193	587.382	784.896	840.440	556.045	647.809	6,733.517
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,197.135	596.932	105.685	417.193	0.000	417.193	587.382	784.896	840.440	556.045	647.809	6,733.517

(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.

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.

- F-15C MIDS JTRS is a new start for FY 2018.
- F-15E MIDS JTRS is a new start for FY 2018.
- F-15C/D SLEP Longerons is a new start for FY 2018.
- F-15C IRST is a new start for FY 2018.

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

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	486.826	105.083	412.793	0.000	412.793	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	110.106	0.602	4.400	-	4.400	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.000	-	0.000	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	596.932	105.685	417.193	0.000	417.193	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	1203 / F-15 C/D Secondary Power System (SPS) (Reliability & Maintainability)				- / 6.642	- / 0.850	- / -	- / -	- / -	- / -
P-40a***	1205 / :Advanced Display Core Processor, ADCP II-C (Reliability & Maintainability)				- / -	- / 0.000	- / 1.859	- / 6.475	- / 0.000	- / 6.475
P-40a***	1209 / F-15 C/D Flight Data Recorder (FDR) (Capability Improvement)				- / 23.959	- / 0.075	- / 0.265	- / 0.303	- / -	- / 0.303
P-40a***	1210 / F-15E Flight Data Recorder (FDR) (Capability Improvement)				- / 137.610	- / 0.630	- / 1.812	- / 2.421	- / -	- / 2.421
P-40a***	8353 / F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM (Reliability & Maintainability)				- / 102.724	- / -	- / -	- / 1.200	- / -	- / 1.200
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Service Life Extension)				- / 5.780	- / 0.288	- / 0.103	- / 1.119	- / -	- / 1.119
P-40a***	8755 / F-15E IFF MODE 5 (Reliability & Maintainability)				- / 28.035	- / -	- / -	- / 8.006	- / -	- / 8.006
P-40a***	8756 / F-15C/D Link 16 Cryptographic Modernization (Capability Improvement)				- / 0.002	- / 2.837	- / -	- / 0.000	- / -	- / 0.000
P-40a***	8794 / F-15C/D Beyond Line Of Sight Communications (Capability Improvement)				- / 54.239	- / -	- / -	- / 0.065	- / -	- / 0.065
P-40a***	8797 / F-15C Passive Attack Sensor System (Capability Improvement)				- / 26.969	- / 0.504	- / 0.704	- / -	- / -	- / -
P-40a***	8798 / 5th to 4th Gen Gateway (Capability Improvement)				- / -	- / -	- / -	- / 0.844	- / -	- / 0.844
P-40a***	8799 / F-15C MIDS JTRS (Capability Improvement)				- / -	- / 0.000	- / -	- / 4.970	- / -	- / 4.970
P-40a***	8801 / F-15 C/D SLEP Longerons (Service Life Extension)				- / -	- / -	- / -	- / 7.023	- / -	- / 7.023
P-40a***	8806 / F-15 C/D Cabin Pressure Indicator (Safety)				- / -	- / 1.977	- / -	- / 0.076	- / -	- / 0.076
P-40a***	8807 / F-15 E Cabin Pressure Indicator (Safety)				- / -	- / 3.332	- / -	- / 0.126	- / -	- / 0.126
P-40a***	8812 / F-15E SATCOM UON (Other)				- / 10.300	- / -	- / 7.400	- / 0.000	- / -	- / 0.000
P-40a***	8813 / F-15E B61 A/C Umbilical (Capability Improvement)				- / -	- / 0.542	- / -	- / -	- / -	- / -
P-40a***	8814 / F-15E B61 ATS Upgrade (Capability Improvement)				- / -	- / 3.513	- / -	- / -	- / -	- / -
P-40a***	99999U / LOW COST RETROFIT MODS (Service Life Extension)				- / 5.763	- / -	- / 0.001	- / 0.001	- / -	- / 0.001
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 5.759	- / -	- / 0.001	- / 0.001	- / -	- / 0.001
P-3a	1202 / F-15E Radar Modernization Program APG-82(V)1 (Capability Improvement)				- / 700.248	- / 312.284	- / 89.775	- / 229.787	- / 0.000	- / 229.787
P-3a	1 / Advanced Display Core Processor, ADCP II-E (Reliability & Maintainability)				- / 0.000	- / 0.000	- / 3.765	- / 50.477	- / 0.000	- / 50.477
P-3a	1206 / F-15C Infrared Search and Track (IRST) (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 57.593	- / 0.000	- / 57.593
P-3a	6158 / F-15C/D APG-63(V)3 radar upgrade (Capability Improvement)				- / 1,089.105	- / 270.100	- / 0.000	- / 16.723	- / 0.000	- / 16.723
P-3a	8800 / F-15E MIDS JTRS (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 14.983	- / 0.000	- / 14.983
P-3a	8815 / F-15C Simulator Upgrade (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 15.000	- / 0.000	- / 15.000
P-40	Total Gross/Weapon System Cost				- / 2,197.135	- / 596.932	- / 105.685	- / 417.193	- / 0.000	- / 417.193

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	1203 / F-15 C/D Secondary Power System (SPS) (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	1205 / :Advanced Display Core Processor, ADCP II-C (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	1209 / F-15 C/D Flight Data Recorder (FDR) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	1210 / F-15E Flight Data Recorder (FDR) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8353 / F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8755 / F-15E IFF MODE 5 (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8756 / F-15C/D Link 16 Cryptographic Modernization (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8794 / F-15C/D Beyond Line Of Sight Communications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8797 / F-15C Passive Attack Sensor System (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8798 / 5th to 4th Gen Gateway (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8799 / F-15C MIDS JTRS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8801 / F-15 C/D SLEP Longerons (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8806 / F-15 C/D Cabin Pressure Indicator (Safety)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8807 / F-15 E Cabin Pressure Indicator (Safety)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8812 / F-15E SATCOM UON (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8813 / F-15E B61 A/C Umbilical (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8814 / F-15E B61 ATS Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999U / LOW COST RETROFIT MODS (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1202 / F-15E Radar Modernization Program APG-82(V)1 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / Advanced Display Core Processor, ADCP II-E (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1206 / F-15C Infrared Search and Track (IRST) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	6158 / F-15C/D APG-63(V)3 radar upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8800 / F-15E MIDS JTRS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8815 / F-15C Simulator Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 587.382	- / 784.896	- / 840.440	- / 556.045	- / 647.809	- / 6,733.517

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
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		
*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	700.248	312.284	89.775	229.787	0.000	229.787	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	700.248	312.284	89.775	229.787	0.000	229.787	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	700.248	312.284	89.775	229.787	0.000	229.787	-	-	-	-	-	-

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

Initial Spares (\$ in Millions)	27.887	6.221	17.326	12.002	-	12.002	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

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. In Aug 08, AF/ASRD again reviewed the Capabilities Production Document (CPD) requirement and determined it was no longer necessary since the operational requirements in the Capabilities Development Document were still valid and the program had already entered MS C/LRIP.

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign. DMSMS costs are included in Group B NRE; SE/PM costs are include in the Group B recurring; and Depot Costs are included in Support Equipment.

Milestone/Development Status

Development is complete.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	312.284	89.775	229.787	-	229.787	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	312.284	89.775	229.787	0.000	229.787	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01500 / F-15				Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: F-15E			Modification Type: Capability Improvement				Related RDT&E PEs: 0207134F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: APG-82(v)1</i>												
A Kits												
Recurring												
APG-82(v)1:INSTALL KITS Group A (Active)	77 / 127.074	45 / 66.215	13 / 17.657	29 / 42.365	- / -	29 / 42.365	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 127.074	- / 66.215	- / 17.657	- / 42.365	- / -	- / 42.365	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
APG-82(v)1:EQUIPMENT Group B (Active)	77 / 372.683	45 / 177.660	13 / 47.376	29 / 149.268	- / -	29 / 149.268	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 372.683	- / 177.660	- / 47.376	- / 149.268	- / -	- / 149.268	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: APG-82(v)1</i>	- / 499.757	- / 243.875	- / 65.033	- / 191.633	- / -	- / 191.633	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / 499.757	- / 243.875	- / 65.033	- / 191.633	- / -	- / 191.633	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / 115.724	- / 5.310	- / 4.200	- / 5.490	- / -	- / 5.490	- / -	- / -	- / -	- / -	- / -	- / -
Change Orders	- / 29.222	- / 37.447	- / 0.071	- / 5.939	- / -	- / 5.939	- / -	- / -	- / -	- / -	- / -	- / -
Data	- / 13.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Type 1 Training	- / 0.311	- / 0.190	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP	- / 6.445	- / 1.630	- / 0.000	- / 4.370	- / -	- / 4.370	- / -	- / -	- / -	- / -	- / -	- / -
ICS-Labor	- / 14.304	- / 11.035	- / 10.341	- / 5.240	- / -	- / 5.240	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / 9.008	- / 1.262	- / 3.500	- / 3.345	- / -	- / 3.345	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / 188.309	- / 56.874	- / 18.112	- / 24.384	- / -	- / 24.384	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1: APG-82(v)1</i>	25 / 12.182	19 / 11.535	13 / 6.630	27 / 13.770	- / -	27 / 13.770	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	25 / 12.182	19 / 11.535	13 / 6.630	27 / 13.770	- / -	27 / 13.770	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	700.248	312.284	89.775	229.787	0.000	229.787	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: APG-82(v)1

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: El Segundo CA/Forest MS
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 18

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	25 / 12.182	19 / 11.535	13 / 6.630	20 / 10.200	- / -	20 / 10.200	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	7 / 3.570	- / -	7 / 3.570	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	25 / 12.182	19 / 11.535	13 / 6.630	27 / 13.770	- / -	27 / 13.770	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	25	4	5	5	5	3	3	3	4	6	7	7	7	6	6	6	8	7	7	7	8	7	7	7	8	7	7	7	8	20	217
Out	24	4	4	4	4	4	4	4	4	4	6	7	7	7	6	6	6	8	7	7	7	5	7	7	7	8	7	7	7	28	217

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1 / Advanced Display Core Processor, ADCP II-E

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	3.765	50.477	0.000	50.477	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	3.765	50.477	0.000	50.477	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	3.765	50.477	0.000	50.477	-	-	-	-	-	-

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

Initial Spares (\$ in Millions)	-	-	0.500	6.220	-	6.220	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-15E requires a replacement Advanced Display Core Processor (ADCP II) to meet future and projected subsystem demands. The ADCP II program will equip the F-15E with a central processor with sufficient memory, processing throughput, and Input/Output bandwidth to meet the Operational Flight Program growth requirements of Suite 8 and beyond, and to support other major platform modernization upgrades such as EPAWSS. The increased capability of ADCP II will also enable the F-15E to fully exploit the APG-82(V)1 radar capabilities, to include increased target tracks, mode simultaneity, and increased track data. The ADCP II is required to meet all APG-82(V)1 key system attributes.

Requirements: AF Form 1067 approved July 2012
DT&E 4Q2016; FDE 4Q2017; MS C: 4Q2017

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.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0207134F.

Milestone/Development Status

Critical Design Review (CDR) completed 4QFY2013, Milestone B completed 1QFY2014. Milestone C planned for 4QFY2017.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.000	3.765	50.477	-	50.477	-	-	-	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1 / Advanced Display Core Processor, ADCP II-E

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Secondary Distribution	Total Obligation Authority	0.000	3.765	50.477	0.000	50.477	-	-	-	-

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UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01500 / F-15				Modification Number / Title: 1 / Advanced Display Core Processor, ADCP II-E				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: F-15E			Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207134F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 236.671	- / 66.344	- / 78.626	- / 51.513	- / -	- / 51.513	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 1: ADCP II E												
A Kits												
Recurring												
ADCP II E:INSTALL KITS Group A (Active)	- / -	- / -	2 / 0.008	31 / 0.128	- / -	31 / 0.128	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.008	- / 0.128	- / -	- / 0.128	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
ADCP II E:EQUIPMENT Group B (Active)	- / -	- / -	2 / 1.233	31 / 25.490	- / -	31 / 25.490	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / 1.233	- / 25.490	- / -	- / 25.490	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: ADCP II E</i>	- / -	- / -	- / 1.241	- / 25.618	- / -	- / 25.618	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 1.241	- / 25.618	- / -	- / 25.618	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING												
Type 1 Training	- / -	- / -	- / 0.002	- / 0.047	- / -	- / 0.047	- / -	- / -	- / -	- / -	- / -	- / -
Change Orders	- / -	- / -	- / 2.473	- / 3.004	- / -	- / 3.004	- / -	- / -	- / -	- / -	- / -	- / -
Data	- / -	- / -	- / 0.021	- / 0.334	- / -	- / 0.334	- / -	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP	- / -	- / -	- / 0.028	- / 0.337	- / -	- / 0.337	- / -	- / -	- / -	- / -	- / -	- / -
ICS-Labor	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / 0.000	- / 2.524	- / 24.859	- / -	- / 24.859	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 1: ADCP II E												
<i>Subtotal: Installation</i>	- / -	- / -	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	3.765	50.477	0.000	50.477	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1 / Advanced Display Core Processor, ADCP II-E

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: ADCP II E

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 15

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Jun 2017	Jan 2018				
Delivery Dates		Sep 2018	Apr 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	0 / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	0	0	0	0	0	0	0	0	2	0	13	13	3	2	8	9	9	10	9	9	9	9	13	13	86	217
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	2	0	13	13	3	2	8	9	9	10	9	9	9	9	13	13	86	217

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1206 / F-15C Infrared Search and Track (IRST)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	57.593	0.000	57.593
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	57.593	0.000	57.593
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	57.593	0.000	57.593

(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 1206, F-15C Infrared Search and Track (IRST), is a new start. The Infrared Search and Track (IRST) system will detect and track objects by infrared radiation. IRST gives the F-15Cs the capability to counter Radio Frequency (RF) jamming and provides aircrew with target detection and track capability. This capability will enhance survivability and lethality of F-15Cs against air-to-air threats in an Electronic Attack (EA) environment. The Air Force will procure 100 IRST pods for use in a rotatable pool for 235 Active and Guard F-15C/D aircraft.

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.

Requirement: IRST CDD July 2012

DMSMS costs are included in Group B NRE; SE/PM costs are include in the Group B recurring.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0207134F.

Milestone/Development Status

Development started in FY 2015.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	57.593	-	57.593
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	57.593	0.000	57.593

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01500 / F-15		Modification Number / Title: 1206 / F-15C Infrared Search and Track (IRST)	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: F-15C, F-15D		Modification Type: Capability Improvement		Related RDT&E PEs: 0207130F		
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Qty (Each) / Total Cost (\$ M)	Qty (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: IRST Pod</i>						
B Kits						
Recurring						
IRST Pod:EQUIPMENT Group B (Active)	- / -	- / -	- / -	10 / 44.275	- / -	10 / 44.275
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 44.275	- / -	- / 44.275
<i>Subtotal: IRST Pod</i>	- / -	- / -	- / -	- / 44.275	- / -	- / 44.275
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 44.275	- / -	- / 44.275
Support (All Modification Items)						
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / 17.327	- / -	- / 17.327
Change Orders	- / -	- / -	- / -	- / 2.575	- / -	- / 2.575
Data	- / -	- / -	- / -	- / 2.195	- / -	- / 2.195
SIM/TRAINER	- / -	- / -	- / -	0 / 0.091	- / -	0 / 0.091
SUPPORT-EQUIP	- / -	- / -	- / -	- / 1.130	- / -	- / 1.130
<i>Subtotal: Support</i>	- / -	- / -	- / -	0 / 13.318	- / -	0 / 13.318
Installation						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	57.593	0.000	57.593

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2		P-1 Line Item Number / Title: F01500 / F-15	
		Modification Number / Title: 1206 / F-15C Infrared Search and Track (IRST)	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 1: IRST Pod			
Manufacturer Information			
Manufacturer Name: TBD		Manufacturer Location: TBD	
Administrative Leadtime (<i>in Months</i>): 3		Production Leadtime (<i>in Months</i>): 18	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates			Jun 2018
Delivery Dates			Dec 2019
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 100	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 6158 / F-15C/D APG-63(V)3 radar upgrade

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,089.105	270.100	0.000	16.723	0.000	16.723	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,089.105	270.100	0.000	16.723	0.000	16.723	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,089.105	270.100	0.000	16.723	0.000	16.723	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	34.510	2.783	7.626	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The APG-63(V)3 Active Electronically Scanned Array (AESA) radar upgrade includes F-15C/D aircraft equipped with all variants of the APG-63 radar. The (V)3 AESA upgrade significantly improves Reliability, Maintainability & Supportability (RM&S), and substantially improves operational effectiveness and combat lethality of the existing APG-63 equipped aircraft. Other avionics which support radar functionality may also be upgraded.

Upgrade kits funded by the Air Force reflect the separate cost to install the kit in the year of installation. The installation cost for kits funded with congressional adds or OCO funding is included in the Group A/B kit cost in the procurement year.

Requirement: CDD 21 Apr 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.

Milestone/Development Status

Development is complete.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	161.694	0.000	16.723	-	16.723	-	-	-	-
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	108.406	-	-	-	-	-	-	-	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	270.100	0.000	16.723	0.000	16.723	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 6158 / F-15C/D APG-63(V)3 radar upgrade			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-15C, F-15D				Modification Type: Capability Improvement				Related RDT&E PEs: 0207134F, 0207130F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 #													
0207130F	- / 65.272	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
Modification Item 1 of 1: (V)3													
A Kits													
Recurring													
(V)3:INSTALL KITS Group A (Active)	66 / 44.803	18 / 19.368	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
(V)3:INSTALL KITS Group A (Guard)	105 / 62.454	7 / 9.982	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 107.257	- / 29.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
(V)3:EQUIPMENT Group B (Active)	66 / 310.974	18 / 121.561	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
(V)3:EQUIPMENT Group B (Guard)	105 / 420.525	7 / 92.813	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 731.499	- / 214.374	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: (V)3	- / 838.756	- / 243.724	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Procurement, All Modification Items	- / 838.756	- / 243.724	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 3.215	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
GROUP B: TOTAL NONRECURRING	- / 81.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / 141.294	- / 16.912	- / 0.000	- / 15.386	- / -	- / 15.386	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / 5.655	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / 1.353	- / -	- / 0.000	- / 15.000	- / -	- / 15.000	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Labor	- / 15.203	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / 15.594	- / 0.323	- / 0.000	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / 9.069	- / 0.100	- / 0.000	- / 0.837	- / -	- / 0.837	- / -	- / -	- / -	- / -	- / -	- / -	
GFP	- / 1.457	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Mod of Spares	7 / 47.618	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Type 1 Training	- / -	- / 0.200	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Support	7 / 211.958	- / 17.535	- / 0.000	- / 11.723	- / -	- / 11.723	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
Modification Item 1 of 1: (V)3	136 / 38.391	29 / 8.841	- / -	10 / 5.000	- / -	10 / 5.000	- / -	- / -	- / -	- / -	- / -	- / -	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 6158 / F-15C/D APG-63(V)3 radar upgrade

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F-15C, F-15D	Modification Type: Capability Improvement	Related RDT&E PEs: 0207134F, 0207130F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Installation</i>	136 / 38.391	29 / 8.841	- / -	10 / 5.000	- / -	10 / 5.000	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	1,089.105	270.100	0.000	16.723	0.000	16.723	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 6158 / F-15C/D APG-63(V)3 radar upgrade

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

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: El Segundo CA/Forest MS
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	136 / 38.391	29 / 8.841	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	10 / 5.000	- / -	10 / 5.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	136 / 38.391	29 / 8.841	- / -	10 / 5.000	- / -	10 / 5.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	136	7	7	7	8	0	0	0	0	3	2	3	2	3	3	3	3	3	3	3	-	1	2	2	2	2	2	2	2	3	214
Out	88	5	7	7	7	7	3	4	3	4	3	4	3	4	7	7	7	7	5	5	5	4	1	2	2	2	2	2	2	5	214

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8800 / F-15E MIDS JTRS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	14.983	0.000	14.983	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	14.983	0.000	14.983	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	14.983	0.000	14.983	-	-	-	-	-	-

(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 8800, F-15E MIDS JTRS, is a new start.

This upgrade integrates and installs a new Link 16 system on the F-15E that complies with an NSA mandate on cryptographic modernization and an FAA mandate on frequency remapping. The FAA mandate requires all fielded Link-16 terminals incorporate the frequency re-mapping capability by 2025.

In addition to meeting the two mandates, the system will significantly increase data link capacity and improve long range performance and the ability to operate in a jamming environment. It will also reduce sustainment costs due to its commonality with other DoD assets.

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

DMSMS costs are included in Group B NRE; SE/PM costs are include in the Group B recurring; and Depot Costs are included in the Support Equipment.

Milestone/Development Status

MIDS JTRS will be integrated in OFP Suite 9

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	14.983	-	14.983	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	14.983	0.000	14.983	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 8800 / F-15E MIDS JTRS			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-15E				Modification Type: Capability Improvement				Related RDT&E PEs: 0207134F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / 12.796	- / 44.136	- / 12.010	- / -	- / 12.010	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
<i>Modification Item 1 of 1: B Kit (2)</i>													
B Kits													
Recurring													
B Kit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	33 / 11.550	- / -	33 / 11.550	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 11.550	- / -	- / 11.550	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: B Kit (2)</i>	- / -	- / -	- / -	- / 11.550	- / -	- / 11.550	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 11.550	- / -	- / 11.550	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
Change Orders	- / -	- / -	- / -	- / 3.433	- / -	- / 3.433	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 3.433	- / -	- / 3.433	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1: B Kit (2)</i>	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	14.983	0.000	14.983	-	-	-	-	-	-	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8800 / F-15E MIDS JTRS
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: B Kit (2)

Manufacturer Information

Manufacturer Name: BAE Systems Manufacturer Location: Wayne, NJ

Administrative Leadtime (in Months): 12 Production Leadtime (in Months): 9

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Oct 2018				
Delivery Dates			Jul 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	-	-	-	-	-	-	-	-	-	-	8	8	8	9	8	8	8	9	9	9	9	9	9	9	9	9	9	79	217
Out	0	-	-	-	-	-	-	-	-	-	-	-	0	8	8	8	9	8	8	8	9	9	9	9	9	9	9	9	9	88	217

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8815 / F-15C Simulator Upgrade

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	15.000	0.000	15.000	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	15.000	0.000	15.000	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	15.000	0.000	15.000	-	-	-	-	-	-

(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 8815, F-15C Simulator Upgrade, is a new start.

Milestone/Development Status

F-15C Unit Simulator Visual System Upgrade funds installation and integration of improved and expanded visual systems on F-15C Unit Simulators.

Funds may be used to address Diminishing manufacturing Sources (DMS) efforts to include removal of end-of-life software/hardware within simulators systems and move to a modular, common open system architecture that is sustainable and cyber-resilient.

Funds may be used to implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative.

Kits acquired in FY18 are to fix a critical training deficiency highlighted during 2016 ADOM Council.

No RDT&E funding is associated with this modification.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	15.000	0.000	15.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	15.000	0.000	15.000	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 8815 / F-15C Simulator Upgrade			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-15C				Modification Type: Capability Improvement				Related RDT&E PEs: 0207130F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Visual System Upgrade</i>													
B Kits													
Recurring													
Visual System Upgrade:EQUIPMENT Group B (Active)	- / -	- / -	- / -	10 / 15.000	- / -	10 / 15.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 15.000	- / -	- / 15.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Visual System Upgrade</i>	- / -	- / -	- / -	- / 15.000	- / -	- / 15.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 15.000	- / -	- / 15.000	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
Change Orders	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1: Visual System Upgrade</i>	- / -	- / -	- / -	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	15.000	0.000	15.000	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8815 / F-15C Simulator Upgrade
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: Visual System Upgrade

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis
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Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 9
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Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Apr 2018				
Delivery Dates			Jan 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	-	-	-	-	-	-	-	-	-	-	-	-	0	10
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	-	-	-	-	-	-	-	-	-	-	-	-	0	10

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	116.736	12.134	257.331	203.864	0.000	203.864	308.517	322.119	581.899	416.695	2,010.991	4,230.286
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	116.736	12.134	257.331	203.864	0.000	203.864	308.517	322.119	581.899	416.695	2,010.991	4,230.286
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	116.736	12.134	257.331	203.864	0.000	203.864	308.517	322.119	581.899	416.695	2,010.991	4,230.286

(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. There are 949 aircraft in the F-16 fleet, consisting of 619 Post-Block (40/42/50/52) and 330 Pre-Block (25/30/32). The Post-Block aircraft have a service life of 8,000 EFH and the Pre-Block have a service life of 10,800 EFH. The average age of the fleet is 25.75 years. The modifications are split between Pre-Block, Post-Block or fleet wide. 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.

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	12.134	77.276	192.013	-	192.013	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	180.055	11.431	-	11.431	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.420	-	0.420	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Secondary Distribution	Total Obligation Authority	12.134	257.331	203.864	-	203.864	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	618270 / DIGITAL FLIGHT CONTROL COMPUTER (Safety)				- / 11.201	- / -	- / -	- / -	- / -	- / -
P-40a***	633030 / Aggressors Update (Capability Improvement)				- / -	- / -	- / 6.925	- / 5.306	- / -	- / 5.306
P-40a***	633032 / ADS-B Out (Capability Improvement)				- / -	- / -	- / -	- / 9.009	- / -	- / 9.009
P-40a***	661652 / Link 16 Crypto (Capability Improvement)				- / -	- / 3.200	- / 6.447	- / -	- / -	- / -
P-40a***	694050 / AESA Radars (Capability Improvement)				- / -	- / -	- / 216.496	- / 2.873	- / -	- / 2.873
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)				- / 93.236	- / 5.305	- / 6.996	- / 5.291	- / -	- / 5.291
P-40a***	866250 / F-16 TRAINING SYSTEMS (Capability Improvement)				- / -	- / 3.250	- / 2.875	- / 3.949	- / -	- / 3.949
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 12.299	- / 0.379	- / 0.742	- / 0.003	- / -	- / 0.003
P-3a	602600 / F-16 LEGACY STRUCTURAL SLEP (Service Life Extension)				- / 0.000	- / 0.000	- / 2.775	- / 18.127	- / 0.000	- / 18.127
P-3a	618250 / Comm Suite Upgrade (Pre-Block) (Capability Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 45.916	- / 0.000	- / 45.916
P-3a	633031 / HFLCC AGCAS (Capability Improvement)				- / -	- / -	- / -	- / 15.445	- / 0.000	- / 15.445
P-3a	661653 / MIDS-JTRS (Capability Improvement)				- / -	- / 0.000	- / 14.075	- / 97.945	- / 0.000	- / 97.945
P-40	Total Gross/Weapon System Cost				- / 116.736	- / 12.134	- / 257.331	- / 203.864	- / 0.000	- / 203.864

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	618270 / DIGITAL FLIGHT CONTROL COMPUTER (Safety)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	633030 / Aggressors Update (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	633032 / ADS-B Out (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	661652 / Link 16 Crypto (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	694050 / AESA Radars (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	866250 / F-16 TRAINING SYSTEMS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	602600 / F-16 LEGACY STRUCTURAL SLEP (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	618250 / Comm Suite Upgrade (Pre-Block) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	633031 / HFLCC AGCAS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	661653 / MIDS-JTRS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 308.517	- / 322.119	- / 581.899	- / 416.695	- / 2,010.991	- / 4,230.286

*** 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: FY 2018 Air Force		Date: May 2017
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		
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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 602600 / F-16 LEGACY STRUCTURAL SLEP

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	2.775	18.127	0.000	18.127	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	2.775	18.127	0.000	18.127	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	2.775	18.127	0.000	18.127	-	-	-	-	-	-

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

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

Description:

The goal of this program is to extend the 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 Service Life Extension Program (SLEP) is intended to be a depot-level upgrade program to replace or rework known life-limited structure to preclude the onset of widespread fatigue damage, maintain safety of flight and enhance aircraft availability. Life-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 Engineering and Manufacturing Development (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.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys or bridge buys limited to the program of record quantity.

Milestone/Development Status

The FSDT contract was awarded on April 28, 2011, while the EMD 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. Four aircraft will be modified as part of the EMD program.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	2.775	17.647	-	17.647	-	-	-	-
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	0.480	-	0.480	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.000	2.775	18.127	0.000	18.127	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01600 / F-16				Modification Number / Title: 602600 / F-16 LEGACY STRUCTURAL SLEP					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-16				Modification Type: Service Life Extension				Related RDT&E PEs: 0207133F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	0 / 49.543	4 / 23.649	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
<i>Modification Item 1 of 1: Legacy SLEP Kit</i>													
A Kits													
Recurring													
Legacy SLEP Kit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	3 / 2.098	- / -	3 / 2.098	- / -	- / -	- / -	- / -	- / -	- / -	
Legacy SLEP Kit:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	1 / 0.480	- / -	1 / 0.480	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 2.578	- / -	- / 2.578	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Legacy SLEP Kit</i>	- / -	- / -	- / -	- / 2.578	- / -	- / 2.578	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 2.578	- / -	- / 2.578	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / -	- / -	- / 0.188	- / -	- / 0.188	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / -	- / -	- / -	- / 6.140	- / -	- / 6.140	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / -	- / -	- / 0.581	- / 0.598	- / -	- / 0.598	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / -	- / 0.056	- / 0.564	- / -	- / 0.564	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / -	- / -	- / 2.138	- / 8.059	- / -	- / 8.059	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / 2.775	- / 15.549	- / -	- / 15.549	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	2.775	18.127	0.000	18.127	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 602600 / F-16 LEGACY STRUCTURAL SLEP

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Feb 2018				
Delivery Dates			Aug 2018				

Installation Information

Method of Implementation: Depot

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	-	-	-	-	-	-	-	-	0	0	0	0	0	4	0	4	4	5	5	10	10	10	11	11	11	11	11	10	190	296
Out	0	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	4	0	4	4	5	5	10	10	10	11	11	11	11	211	296

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 618250 / Comm Suite Upgrade (Pre-Block)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	45.916	0.000	45.916	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	45.916	0.000	45.916	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	45.916	0.000	45.916	-	-	-	-	-	-

(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 618250, Comm Suite Upgrade (Pre-Block), is a new start. The Chairman, Joint Chiefs of Staff directed a modernization effort based on the recommendation of the National Security Agency (NSA) to modernize equipment and provide enhanced security for tactical networks (Cryptographic Modernization (CMI)). This modernization effort will be satisfied by replacing the existing ARC-201 RT-1851 GENIV radios with ARC 210 RT-2036 GENVI radios . The GENVI radios will include Cryptographic Modernization (CM), Mobile User Objective System (MUOS) and second generation Anti-Jam Tactical UHF Radio for NATO (SATURN). The KY-58 will be replaced by the new KY-58M to encrypt radio communication. The Radio Control Unit (RCU) High Power Amplifier (HPA) and Low Noise Amplifier (LNA) will also be replaced. This update will result in all F-16 aircraft having two ARC-210 GENVI radios. This modification updates pre-Block F-16 aircraft.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys or bridge buys limited to the program of record quantity.

Milestone/Development Status

There was not a separate development program for the Comm Suite pre-block upgrade. Development was accomplished through an ongoing Software Capability Upgrade (SCU) covering all F-16 Pre-Block aircraft.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	45.916	-	45.916	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.000	0.000	45.916	0.000	45.916	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01600 / F-16				Modification Number / Title: 618250 / Comm Suite Upgrade (Pre-Block)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	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: Comm Suite MUOS (Pre-Block)</i>													
A Kits													
Recurring													
Comm Suite MUOS (Pre-Block):INSTALL KITS Group A (Active)	- / -	- / -	- / -	89 / 27.109	- / -	89 / 27.109	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 27.109	- / -	- / 27.109	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Comm Suite MUOS (Pre-Block)</i>	- / -	- / -	- / -	- / 27.109	- / -	- / 27.109	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 27.109	- / -	- / 27.109	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / 11.833	- / -	- / 11.833	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / -	- / -	- / 13.931	- / -	- / 13.931	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / -	- / -	- / -	- / 1.920	- / -	- / 1.920	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / -	- / -	- / -	- / 1.123	- / -	- / 1.123	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 18.807	- / -	- / 18.807	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	45.916	0.000	45.916	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 618250 / Comm Suite Upgrade (Pre-Block)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: Comm Suite MUOS (Pre-Block)

Manufacturer Information

Manufacturer Name: tbd	Manufacturer Location: tbd
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 9

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Mar 2018				
Delivery Dates			Dec 2018				

Installation Information

Method of Implementation: Depot

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	22	22	22	23	23	23	23	23	23	23	23	23	16	16	16	16	0	337
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	22	22	22	23	23	23	23	23	23	23	23	23	16	16	16	16	337

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633031 / HFLCC AGCAS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	15.445	0.000	15.445	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	15.445	0.000	15.445	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	15.445	0.000	15.445	-	-	-	-	-	-

(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 633031, HFLCC AGCAS, is a new start.

Hybrid Flight Control Computer (HFLCC) Auto Ground Collision Avoidance System development and integration for Pre-block A/C prevents most controlled flight into terrain (CFIT) accidents using terrain database and prediction algorithms for aircraft trajectory recovery and executes an automated fly up maneuver to avoid collision.

This funding request will support potential DMS and obsolescence solutions, to include if optimal, life of type buys limited to the program of record quantity.

Milestone/Development Status

AFRL has been funded to complete HFLCC development. HFLCC Development will be complete by FY18 resulting in a fully qualified HFLCC SPO Program will update engineering and integrate hardware onto platform.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	14.445	-	14.445	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.580	-	0.580	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.420	-	0.420	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	15.445	0.000	15.445	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01600 / F-16				Modification Number / Title: 633031 / HFLCC AGCAS				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: F-16				Modification Type: Capability Improvement				Related RDT&E PEs: 0207133F				
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	- / -	- / 18.962	- / -	- / 18.962	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
<i>Modification Item 1 of 1: Install Kits Group A</i>												
A Kits												
Recurring												
Install Kits Group A:INSTALL KITS Group A (Active)	- / -	- / -	- / -	22 / 0.640	- / -	22 / 0.640	- / -	- / -	- / -	- / -	- / -	- / -
Install Kits Group A:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	29 / 0.580	- / -	29 / 0.580	- / -	- / -	- / -	- / -	- / -	- / -
Install Kits Group A:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	21 / 0.420	- / -	21 / 0.420	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 1.640	- / -	- / 1.640	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Install Kits Group A</i>	- / -	- / -	- / -	- / 1.640	- / -	- / 1.640	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 1.640	- / -	- / 1.640	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.660	- / -	- / 0.660	- / -	- / -	- / -	- / -	- / -	- / -
Change Orders	- / -	- / -	- / -	- / 3.640	- / -	- / 3.640	- / -	- / -	- / -	- / -	- / -	- / -
OTHER GOVT	- / -	- / -	- / -	- / 9.505	- / -	- / 9.505	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 13.805	- / -	- / 13.805	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	-	-	15.445	0.000	15.445	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 633031 / HFLCC AGCAS
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: Install Kits Group A

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: Hill AFB
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6
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Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			May 2018				
Delivery Dates			Nov 2018				

Installation Information

Method of Implementation: Depot

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	0	-	-	-	-	-	-	-	-	0	0	0	0	18	18	18	18	24	24	24	24	24	24	24	24	24	24	24	24	23	23	22	-	0	332
Out	0	-	-	-	-	-	-	-	-	0	0	0	0	0	18	18	18	18	24	24	24	24	24	24	24	24	24	24	24	24	23	23	22	0	332

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01600 / F-16	Modification Number / Title: 661653 / MIDS-JTRS

ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:				
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	14.075	97.945	0.000	97.945
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	14.075	97.945	0.000	97.945
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.000	14.075	97.945	0.000	97.945
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-

Description:

This program element may include necessary civilian pay expenses required to manage, execute, and deliver F-16 weapon system capability.

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.

Engineering and Manufacturing Development (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.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys or bridge buys limited to the program of record quantity.

Milestone/Development Status

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

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	-	2.589	87.812	-	87.812
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	11.486	10.133	-	10.133
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.000	14.075	97.945	0.000	97.945

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Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01600 / F-16			Modification Number / Title: 661653 / MIDS-JTRS	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Models of Systems Affected: F-16			Modification Type: Capability Improvement			Related RDT&E PEs: 0207445F	
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
	Qty (Each) / Total Cost (\$ M)	Qty (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							
B Kits							
Recurring							
MIDS-JTRS:EQUIPMENT Group B (Active)	- / -	- / -	- / -	229 / 68.243	- / -	229 / 68.243	
MIDS-JTRS:EQUIPMENT Group B (Guard)	- / -	- / -	38 / 11.486	34 / 10.133	- / -	34 / 10.133	
<i>Subtotal: Recurring</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 11.486</i>	<i>- / 78.376</i>	<i>- / -</i>	<i>- / 78.376</i>	
<i>Subtotal: MIDS-JTRS</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 11.486</i>	<i>- / 78.376</i>	<i>- / -</i>	<i>- / 78.376</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 11.486</i>	<i>- / 78.376</i>	<i>- / -</i>	<i>- / 78.376</i>	
Support (All Modification Items)							
Change Orders	- / -	- / -	- / 0.574	- / 3.918	- / -	- / 3.918	
OTHER GOVT	- / -	- / -	- / 2.015	- / 15.651	- / -	- / 15.651	
<i>Subtotal: Support</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 2.589</i>	<i>- / 19.569</i>	<i>- / -</i>	<i>- / 19.569</i>	
Installation							
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total							
Total Cost (Procurement + Support + Installation)	-	0.000	14.075	97.945	0.000	97.945	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2		P-1 Line Item Number / Title: F01600 / F-16	
Modification Number / Title: 661653 / MIDS-JTRS		ID Code (A=Service Ready, B=Not Service Ready) :	
		MDAP/MAIS Code:	
Modification Item 1 of 1: MIDS-JTRS			
Manufacturer Information			
Manufacturer Name: Navy Companies - - ViaSat and DSL		Manufacturer Location: San Diego, CA	
Administrative Leadtime (in Months): 7		Production Leadtime (in Months): 12	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates		Aug 2017	Aug 2018
Delivery Dates		Aug 2018	Aug 2019
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 611	

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F03500 / F-35 Modifications
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207142F	Other Related Program Elements: 0604800F
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Line Item MDAP/MAIS Code: 198

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	384.933	70.167	175.811	68.270	0.000	68.270	230.448	279.814	259.978	301.899	0.000	1,771.320
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	384.933	70.167	175.811	68.270	0.000	68.270	230.448	279.814	259.978	301.899	0.000	1,771.320
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	384.933	70.167	175.811	68.270	0.000	68.270	230.448	279.814	259.978	301.899	0.000	1,771.320

(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 FY2018 funding request was reduced by \$260.741 million to account for the availability of prior year execution balances.

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 FY18 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. Increases between FY19-FY22 resulted from a re-phase of FY18 modification funding to better align with execution of requirements.

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.

Funding for this exhibit contained in PE 0207142F.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	F3513 / Block 3i LRIP 2-5 Upgrade (Capability Improvement)				- / 145.115	- / 44.797	- / 11.485	- / 5.098	- / -	- / 5.098
P-40a***	F3514 / Block 3F LRIP 2-5 Upgrade (Capability Improvement)				- / -	- / 6.790	- / 0.006	- / 0.540	- / -	- / 0.540
P-40a***	F3515 / Block 3F LRIP 6-8 Upgrade (Capability Improvement)				- / -	- / -	- / -	- / 0.056	- / -	- / 0.056
P-3a	1 / Concurrency (Other)				- / 239.818	- / 18.580	- / 164.320	- / 62.576	- / 0.000	- / 62.576
P-40	Total Gross/Weapon System Cost				- / 384.933	- / 70.167	- / 175.811	- / 68.270	- / 0.000	- / 68.270

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 1 / Concurrency

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	239.818	18.580	164.320	62.576	0.000	62.576
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	239.818	18.580	164.320	62.576	0.000	62.576
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	239.818	18.580	164.320	62.576	0.000	62.576
<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 effort (MN-F3516) funds retrofits due to concurrency changes to correct deficiencies discovered after DD-250 of the last aircraft in a given Low Rate Initial Production (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 FY18, 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. FY18 concurrency funds will also be used to implement modifications across the rest of the USAF F-35A fleet. Increases in FY19-FY22 resulted from a re-phase of FY18 modification funding to better align with execution of requirements.

- TI-0000-0015 Stress Failure of Hydraulic Tube Support Bracket
- TI-0000-0031 Nose Wheel Steering (NWS) Motor Qualification Failure
- TI-0000-0045 CTOL/STOVL MLG SDD & LRIP Part Number Rolls
- TI-0000-0049 Ordnance Quick Latch System (OQLS) FS 424 Latch Corrosion Control
- TI-0000-0055 IPP Bay Vent Fan Electrical Bond
- TI-0000-0056 IPP Controller Part Number Roll
- TI-0000-0058 Back-Up Radio Tray Clearance
- TI-0000-0063 Bootstrap Accumulator Redesign
- TI-0000-0064 Counter Measures Door Control Valve Life Limitation on AF:6
- TI-0000-0098 CTOL Nose Landing Gear
- TI-0000-0117 CTOL Trestle Inst Cotter Pin Alignment and Joint Clamp up (PR-45840)
- TI-0000-0119 Production Ejection Seat (LRIP I & II) MWARS Replacement with Negative G Strap & New Cartridge Set Part Numbers
- TI-0000-0122 28V BATTERY AND CHARGER CHANGES
- TI-0000-0124 Controller, Motor Pump Qual Failure

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 1 / Concurrency
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>TI-0000-0129 MLG Control Valve Part Number Roll TI-0000-0130 Emergency Control Valve Qual Failure TI-0000-0132 Valve, Mechanical Sequence - T Qual Failure TI-0000-0133 Filter Module, Pressure Qual Failure TI-0000-0135 Engine Driven Pump Life Limit TI-0000-0137 Pump, Motor GND Maint Qual Failure TI-0000-0138 Wingtip Light Improvement For FAA Compliance TI-0000-0145 2AF:0006-0007 and AF:0017-0020. Record Control Panel (RCP) HARNESS ROUTE ERROR TI-0000-0147 PTMS PAO Three-Port Valve Part Number Roll TI-0000-0158 WBDD Flexible Cable Re-design TI-0000-0161 EDU #1 & #2 Signal Deletion TI-0000-0165 R3 Float Valve with Mechanical Thread Locking TI-0000-0191 270V BCCU TI-0000-0192 Gen II -10 Helmet Mounted Display Variance TI-0000-0193 EW Gain State Control Logic Error TI-0000-0208 CTOL Arresting Gear Push Rods - Incorrect Heat Treat for AI 2024-T4 TI-0000-0231 PTMS EHA Cooling Orifices - CTOL & STOV TI-0000-0236 FPS Fire and Bleed Leak Controller (FBL) Redesign TI-0000-0245 Update to Antenna Switch Unit for Cosite Function and Qualification Test Failures TI-0000-0260 Canopy Actuation System TI-0000-0263 Power Panel 1, 2, 3 TI-0000-0264 PTMS Controller Humidity, Temp, and Durability Qualification Test Failures TI-0000-0281 Hoist Point Cover FIP Proposal TI-0000-0282 Update to Audio Control Electronics (ACE) Unit for Qualification Test Failures TI-0000-0286 Backup Radio (BuR) Indirect Lightning Qualification Test Failure TI-0000-0316 CTOL & CV FS 496 Bulkhead Trunnion TI-0000-0329 Refueling Bay and Nozzle Clash LRIP 1-3 Modification TI-0000-0331 WBDDS RGAs Limited Life - Change Request Approval TI-0000-0336 Panoramic Cockpit Display (PCD) - DU TI-0000-0339 HMDS LRIP Subsystem Variance - UUT Outages TI-0000-0343 Panoramic Cockpit Display (PCD) Major Variances - EU TI-0000-0344 HMDS LRIP Subsystem Variance - Fixed Camera TI-0000-0358 Production Ejection Seat (-0021) TI-0000-0361 Vertical Tail 575 Fitting TI-0000-0363 TRS Component Changes from Qual Test Failures TI-0000-0367 Engine Trailer Adapter Kit - FS556 Interface, J27006/J27007 TI-0000-0386 Fuel System - Signal Amplifier TI-0000-0387 Fuel System - Dive Rate Performance TI-0000-0395 LEF Inbd Blade Seal Mousehole and CTOL LEF Lwr Inbd Blade Seal Failures TI-0000-0398 Arresting Hook Aft Door Spring Damper Part Number Roll TI-0000-0405 "EDU Random Vibration Failures Electrical Distribution Unit Full Qualification" TI-0000-0412 Wing Lighting Controller - Salt Fog Failure TI-0000-0423 Engine Interchangeability Bleed Air System Ducting Design</p>		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 1 / Concurrency
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>TI-0000-0424 Firewall Shutoff Valve Part Number Roll TI-0000-0425 CCDD LRIP1-016 No Intercom Transmit During Air Refueling TI-0000-0432 Short Life - CTOL Wing Forward Root Rib TI-0000-0441 CTOL FS 594 Centre Arch Low Life TI-0000-0448 Add -0007 ASSCA/-0006 ATQA To Aircraft TVE TI-0000-0456 Bulkhead - FS 450 TI-0000-0457 Bulkhead - FS 472 TI-0000-0458 Bulkhead - FS 518 Upper TI-0000-0460 Bulkhead - FS 556 TI-0000-0463 Support - Fairing, Mid, LH/RH TI-0000-0467 Fuel Floor - FS496-556, LH TI-0000-0468 Fuel Floor - FS496-556, RH TI-0000-0469 Life Support System (OBOGS, Steel BOS, SIC, SPA, PIC and Composite BOS) TI-0000-0477 CTOL EHAS Panels - Incorrect Fastener Grips and De-torque Issu TI-0000-0480 ICC Qual Issues TI-0000-0495 OBIGGS & Pressure/Vent Changes for Lightning Protection TI-0000-0538 EHA Flaperon Support Equipment Locations TI-0000-0539 Cracking of Bifurcation Seam Treatment TI-0000-0574 Electronics Units Modifications for EMI, Lightning and Qualification Compliance. TI-0000-0575 ULF & 3BSD Emergency Control Valve TI-0000-0576 Refuel Probe/Tailhook Emergency Control Valve TI-0000-0578 Aux Inlet Door Emergency Control Valve TI-0000-0583 CTOL STOVL Rudder EHA Design Change TI-0000-0602 Brake Control Unit (BCU) Wet Runway Update & Operation of a Wet Runway TI-0000-0607 Limited Life CTOL STA 3/9 Aft Rib TI-0000-0608 Fwd Upper Engine Mount (CTOL) TI-0000-0626 SMSFRIU SDD/LRIP Arm Disable Input TI-0000-0631 Countermeasures Doors & NNMSB/WSESRB Concerns TI-0000-0654 IDMS Connector Ref Des Swap TI-0000-0655 EO DAS Center Fuselage Vibration Testing TI-0000-0671 IFF Transponder Operation During Emergency Conditions TI-0000-0673 Ordnance Quick Latch System (OQLS) - Clip Lock TI-0000-0683 CR-017534 Rev- HT Bearing Issues TI-0000-0707 Air Data System Design Changes For -0004 Configuration TI-0000-0709 HT EHA Block Change TI-0000-0723 EOTS PBS Startup Timeline TI-0000-0737 IPP Purge Issue Due to Low Fuel Shutdown TI-0000-0738 Modified Fuel Dump Valve (T28a) TI-0000-0771 Install Battery into CNI Rack 3A and 3B TI-0000-0772 PTMS Turbomachine/ACCM Cable Interface Changes TI-0000-0802 CTOL Main Landing Gear TI-0000-0808 Weapons Bay Door Uplock Sealing TI-0000-0833 Short Shank Condition on Engine Inspection Panels TI-0000-0854 DMCH MPEG VHDL Firmware Version</p>		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 1 / Concurrency
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>TI-0000-0866 Production Ejection Seat (-0023) TI-0000-0884 AESG - Material & Workmanship TI-0000-0895 Arm Disable Current Leakage Path Correction TI-0000-0898 Electronic Warfare Band 3/4 Antenna and Edge Performance Issues TI-0000-0910 PCD EU Cooling Rework TI-0000-0913 LEFAS PDU Resolver and Rotor Shaft Seal Life TI-0000-0945 CTOL Audio Control Electronics (ACE) In-Flight Refueling TI-0000-0992 Outboard Vertical Tail Seal Redesign TI-0000-0998 CTOL and CV Refuel System Mod TI-0000-1000 Inboard Weapon Bay Door Flipper Door Design Change TI-0000-1011 L-Band Pre-Selector (LBPS) Propagation Delay Calibration for Mode 5 TI-0000-1048 Panoramic Cockpit Display-Electronic Unit (PCD-EU) TI-0000-1056 RADAR 1A & 1B Racks -0002 Cut-in TI-0000-1060 Final Finishes TI-0000-1078 Nacelle Insulation TI-0000-1082 Power Panel 1 & 2 Random Vibration Failures - Second Failure TI-0000-1092 Landing Taxi Light Redesign TI-0000-1099 ATQA Mounting Bolt Interface TI-0000-1102 BH-1 Weapons Bay Doors-AMRAAM Cradle Found Fatigue Cracks in Cradle Lugs @11,353 hrs TI-0000-1113 AESG Power Connector Rating (Generator) TI-0000-1192 Short Life - CTOL Thrust Mount Shear Web / 2WSH43777-0001 and 2WSH43778-0001 Do Not Meet Service Life Requirement TI-0000-1198 HT Heating TI-0000-1255 Fibre Channel Switch Design Issues-0004 TI-0000-1324 Structural Cracking of Aft MLG Door Drive Link U-Joint TI-0000-1362 Production Incorporation of Improved ANR into VSI HMD TI-0000-1372 EW Block-2 DRFM Module Firmware Issue TI-0000-1396 HTCA with End Gland Material Issue TI-0000-1408 CCDD LRIP4/LRIP 5-016 EW: AEL, Aft Sector TI-0000-1472 Gun Port Door Threads in Bearing Issue TI-0000-1483 Power Panel 3 Random Vibration Failures - Second Failure TI-0000-1485 F1 Feed Tank Gasket Spill Out/Removing F1 Feed Tank Cover Gasket And Reworking To Production Fay Seal Configuration TI-0000-1494 PTMS Turbomachine Configuration to Correct Qualification Failures TI-0000-1515 ESG Service Life (Generator) -0003 TI-0000-1518 Incorrect PAO Orifice In P5 Gp A Dummy LRU; Incorrect PAO Cooling Orifices In Center Fuselage Cold Liquid Loop TI-0000-1549 Firmware Update for AMS Cartridge Reset SPAR TI-0000-1551 28V Battery Full Qualification TI-0000-1552 28V BCCU Lightning Compliance - 28V Battery Charger TI-0000-1589 Hydraulic System Single Point Failure TI-0000-1650 MWARS for Production Seat (LRIP 1-6) TI-0000-1652 Rudder Slider Hinge Wear TI-0000-1653 Ground Maintenance Valve Deletion to Prevent PAO in Cockpit (DR 1-4815699) TI-0000-1706 Insertion of updated DMCH into LRIP 6 with Night Vision Camera Image Quality Improve TI-0000-1761 HT EHA Solenoid Valve (SOV) Qual Test Failure</p>		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 1 / Concurrency
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p> TI-0000-1783 Canopy Boot Cracking TI-0000-1786 AJ-1 Test Incident - Cracked stiffener on the FS402 frame (TIN-075) TI-0000-2450 Bleed Air Sensor Fitting Galling TI-0000-2467 CTOL FS 503 Frame Limited Life TI-0000-2468 CTOL IPP Shear Web Limited Life Discovery TI-0000-2506 Gun Port Blast Mislocation TI-0000-2528 270V Battery Gunfire Vibration Failure TI-0000-2551 L-Band Power Amplifier (LBPA) Update for LINK-16 TI-0000-2580 AESG -0004 Qual Failure TI-0000-2624 Lower Horizontal Tail Bullnose Panels Experiencing Coating Damage (panels 4134/4133) TI-0000-2633 Flaperon Blade Seal Buckling TI-0000-2659 Cockpit Green Indicator Bright/Dim Anomaly TI-0000-2672 Radome Shroud Gapping / Trimming TI-0000-2674 Cracking of Bifurcation Seam Treatment TI-0000-2690 LAU-147 and BRU Vent Value Under Full Pressure TI-0000-2699 Fibre Channel Switch Design Issues -0005 TI-0000-2714 -0025 Ejection Seat Qual Issues TI-0000-2725 Vehicle Management Computer (VMC) Electrical Connection Issue on CTOL and STOVL A/C TI-0000-2784 CNI 3A & 3B Integrated Backplane Assembly (IBA) EMI Upgrades TI-0000-2786 Upgrade ICP Fibre Channel Switch Module to Address MS Stability Issues TI-0000-2800 CNI TFR Module Humidity Qualification Test Failure TI-0000-2818 EOTS LoS Pointing Angle TI-0000-2833 Gun System Muzzle and Purge Door Time Out TI-0000-2865 TR2 - SP-SPIO Issue TI-0000-2891 OBIGGS Wash Pressure Buildup in Refuel Manifold TI-0000-2909 IPP Bay High Flow Air Duct Separation TI-0000-2921 Gun Vent Door Unpainted Brackets TI-0000-3041 Nacelle Ventilation Intake (NVI) Failure Investigation TI-0000-3054 Ammunition Handling System (AHS) Carrier Belt Rollers TI-0000-3099 Gun Fwd Mount Muzzle Sleeve Nut Plate TI-0000-3100 Horizontal Tail Bearing Specification Change TI-0000-3194 Landing Aid Down Converter (LADC) Qualification Test Failure TI-0000-3280 F-35A FS 383 Frame Short Life TI-0000-3281 F-35A FS 402 Frame Short Life TI-0000-3284 F-35A Center Fuselage F2 Floor Durability Life TI-0000-3285 Egress System Safe Escape Intro for -6 Seat TI-0000-3386 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 Radar Harness Redesign TI-7777-0024 Gun Gas Purge & Gun Port Door Actuators </p>		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F03500 / F-35 Modifications	Modification Number / Title: 1 / Concurrency
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>TI-7777-0031 Brake Control Electronic Unit Update TI-7777-0042 Return Fuel Cooler HX Coating TI-7777-0057 Nacelle Fan - Full Qualified Configuration TI-7777-0077 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 ACCM Filter Pin 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 Avionics Bay Environmental Seal Change TI-7777-0093 Flow Sensor EMI/Vibration TI-7777-0095 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 Interim Solution - 270V BCCU TI-9999-1650 MWARS for Production Seat - LRIP 5 Only TI-0000-3443 Vehicle Management Computer CCDL Failure Investigation and Corrective Action TI-0000-3674 NGC Supplier Disclosure - L/R 211 Skin Missing Shims TI-0000-3762 AME 3 System Allows Water Intrusion into Aft Upper Wing Hoist Point TI-0000-3775 FS402 Upper Frame Durability Life TI-0000-3819 WBDDS Inductive Switch Short Life</p> <p>Milestone/Development Status</p> <p>DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES For the F-35 program, the discovery of new concurrency changes phases out with the completion of SDD.</p>		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F03500 / F-35 Modifications		Modification Number / Title: 1 / Concurrency	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: F-35A		Modification Type: Other		Related RDT&E PEs: 0604800F		
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Qty (Each) / Total Cost (\$ M)	Qty (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)	- / 236.018	- / 12.930	- / 153.820	- / 51.267	- / -	- / 51.267
<i>Subtotal: Recurring</i>	- / 236.018	- / 12.930	- / 153.820	- / 51.267	- / -	- / 51.267
<i>Subtotal: Concurrency</i>	- / 236.018	- / 12.930	- / 153.820	- / 51.267	- / -	- / 51.267
<i>Subtotal: Procurement, All Modification Items</i>	- / 236.018	- / 12.930	- / 153.820	- / 51.267	- / -	- / 51.267
Support (All Modification Items)						
ICS-Labor	- / 3.500	- / 5.250	- / 5.000	- / 9.514	- / -	- / 9.514
OTHER GOVT	- / 0.300	- / 0.400	- / 5.500	- / 1.795	- / -	- / 1.795
<i>Subtotal: Support</i>	- / 3.800	- / 5.650	- / 10.500	- / 11.309	- / -	- / 11.309
Installation						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)	239.818	18.580	164.320	62.576	0.000	62.576

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2		P-1 Line Item Number / Title: F03500 / F-35 Modifications	
		Modification Number / Title: 1 / Concurrency	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 1: Concurrency			
Manufacturer Information			
Manufacturer Name: Lockheed Martin		Manufacturer Location: Fort Worth	
Administrative Leadtime (in Months): 0		Production Leadtime (in Months): 0	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates			
Delivery Dates			
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 0	

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,333.270	111.077	163.008	161.630	0.000	161.630	257.891	257.310	347.665	457.265	5,205.329	9,294.445
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	15.000	-	-	-	-	15.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,333.270	111.077	163.008	161.630	0.000	161.630	242.891	257.310	347.665	457.265	5,205.329	9,279.445
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	15.000	-	15.000	-	-	-	-	-	15.000
Total Obligation Authority (<i>\$ in Millions</i>)	2,333.270	111.077	163.008	176.630	0.000	176.630	242.891	257.310	347.665	457.265	5,205.329	9,294.445

(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 its asymmetric war fighting advantage. F-22 modernization and sustainment programs invest in upgrades to the air vehicle, engine, and training systems to improve F-22 weapons, communications, and Intelligence Surveillance Reconnaissance (ISR) capabilities. Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

Funding for the exhibit contained in Program (PE) 0207138F.

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.

TACLINK 16 has advanced procurement for long lead materiel.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	97.643	137.123	152.885	-	152.885	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.434	25.885	23.745	-	23.745	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	111.077	163.008	176.630	-	176.630	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	F22001 / COMMON CONFIGURATION (Capability Improvement)				- / 666.026	- / 2.051	- / 1.131	- / -	- / -	- / -
P-40a***	F22003 / INCREMENT 3.1 (Capability Improvement)				- / 246.437	- / 3.335	- / 2.877	- / 0.139	- / -	- / 0.139
P-40a***	F22022 / Structures Retrofit Plan (Service Life Extension)				- / 234.439	- / 14.552	- / 14.598	- / 9.940	- / -	- / 9.940
P-40a***	F22024 / Trainers Modernization (Safety)				- / 81.018	- / 3.525	- / 4.067	- / 9.237	- / -	- / 9.237
P-40a***	F22027 / Crypto Modernization (Capability Improvement)				- / 3.704	- / -	- / -	- / -	- / -	- / -
P-3a	1 / Reliability and Maintainability Maturation Program (Reliability & Maintainability)				- / 1,047.753	- / 71.714	- / 125.835	- / 127.845	- / 0.000	- / 127.845
P-3a	2 / TACLink 16 (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	3 / F119 Engine Modifications (Other)				- / 53.893	- / 15.900	- / 14.500	- / 14.469	- / 0.000	- / 14.469
P-40	Total Gross/Weapon System Cost				- / 2,333.270	- / 111.077	- / 163.008	- / 161.630	- / 0.000	- / 161.630

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	F22001 / COMMON CONFIGURATION (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	F22003 / INCREMENT 3.1 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	F22022 / Structures Retrofit Plan (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	F22024 / Trainers Modernization (Safety)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	F22027 / Crypto Modernization (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / Reliability and Maintainability Maturation Program (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	2 / TACLink 16 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	3 / F119 Engine Modifications (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 257.891	- / 257.310	- / 347.665	- / 457.265	- / 5,205.329	- / 9,294.445

*** 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: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,047.753	71.714	125.835	127.845	0.000	127.845	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,047.753	71.714	125.835	127.845	0.000	127.845	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,047.753	71.714	125.835	127.845	0.000	127.845	-	-	-	-	-	-

(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 Reliability, Availability, and Maintainability Maturation Program (RAMMP) provides for solution identification 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, reduction to Mean Time Between Failure (MTBF), Mean Time to Repair (MTTR), impacts to the safety of the pilot or aircraft and the return on investment (ROI) as associated with the total F-22 life cycle costs. The RAMMP program includes depot touch labor and throughput, modifications to address corrosion, and urgent response requirements for the aircraft such as Automatic Back-Up Oxygen System (ABOS). RAMMP funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortages (DMSMS) issues. RAMMP includes Mission Support Requirements.

RAMMP retrofit kit purchases currently include individual RAMMP projects, totaling over 9,600 kits. In FY2018, RAMMP kit purchases and installs will continue on the following: Configurable Rail Launchers (CRL) AIM-9X extension kits to enable AIM-9X employment: AIM-9X missiles; Low Observable (LO) Mighty Tough Boot: required to replace current boot material which is less durable and leads to an estimated 3% increase in aircraft reliability when fully integrated; and the Aft Boom Surface wear which is required to replace damage to the leading flap surface area that leads to in flight safety concerns. Each RAMMP retrofit kit has a component level improvement metric, which upon installation on the fleet, contribute to the overall availability and reliability improvement of the F-22.

Kit installations are completed at either the depot or by a contractor field team depending on the complexity of the installation effort.

Milestone/Development Status

The solution identification effort provides for the non-recurring engineering efforts associated with future retrofit projects that 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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	63.179	108.359	108.306	-	108.306	-	-	-	-
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	8.535	17.476	19.539	-	19.539	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force							Date: May 2017			
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			
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:					
Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	71.714	125.835	127.845	0.000	127.845	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
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				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: F-22			Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207138F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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)	4,989 / 595.914	948 / 27.059	1,292 / 47.132	1,116 / 40.966	- / -	1,116 / 40.966	- / -	- / -	- / -	- / -	- / -	- / -
RAMMP Kits:EQUIPMENT Group B (Guard)	777 / 49.457	86 / 5.657	228 / 8.317	197 / 7.184	- / -	197 / 7.184	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 645.371	- / 32.716	- / 55.449	- / 48.150	- / -	- / 48.150	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: RAMMP Kits</i>	- / 645.371	- / 32.716	- / 55.449	- / 48.150	- / -	- / 48.150	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / 645.371	- / 32.716	- / 55.449	- / 48.150	- / -	- / 48.150	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
OTHER GOVT	- / 21.441	- / 2.239	- / 3.776	- / 4.412	- / -	- / 4.412	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / 21.441	- / 2.239	- / 3.776	- / 4.412	- / -	- / 4.412	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1: RAMMP Kits</i>	5,766 / 380.941	1,034 / 36.759	1,520 / 66.610	1,313 / 75.283	- / -	1,313 / 75.283	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	5,766 / 380.941	1,034 / 36.759	1,520 / 66.610	1,313 / 75.283	- / -	1,313 / 75.283	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	1,047.753	71.714	125.835	127.845	0.000	127.845	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jan 2016	Jan 2017	Jan 2018				
Delivery Dates	Jan 2016	Jan 2017	Jan 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	248 / 14.527	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	190 / 6.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	723 / 20.815	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	341 / 30.505	- / -	341 / 30.505	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	248 / 14.527	190 / 6.101	723 / 20.815	341 / 30.505	- / -	341 / 30.505	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	248	47	47	48	48	180	180	181	182	85	85	85	86	117	117	117	117	134	135	135	135	131	131	131	131	134	135	134	135	552	4,123
Out	248	47	47	48	48	180	180	181	182	85	85	85	86	117	117	117	117	134	135	135	135	131	131	131	131	134	135	134	135	552	4,123

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

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

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	5,518 / 366.414	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	844 / 30.658	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	797 / 45.795	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	972 / 44.778	- / -	972 / 44.778	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5,518 / 366.414	844 / 30.658	797 / 45.795	972 / 44.778	- / -	972 / 44.778	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	5,518	211	211	211	211	199	199	199	200	243	243	243	243	217	217	218	218	224	224	225	225	238	239	239	239	245	245	246	246	1,009	12,845
Out	5,518	211	211	211	211	199	199	199	200	243	243	243	243	217	217	218	218	224	224	225	225	238	239	239	239	245	245	246	246	1,009	12,845

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 2 / TACLink 16

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	15.000	-	15.000	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	15.000	0.000	15.000	-	-	-	-	-	-

(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 F22013, TACLink 16, is a new start.

The TACLink-16 program accelerates fielding of key technologies previously aligned under the F-22 Tactical Mandates (TACMAN) program. The program consists of software and hardware development necessary to field basic Link 16 Transmit capability on the Block 30/35 F-22 aircraft. Link 16 Transmit will be accomplished via an Open System Architecture (OSA) integrated with F-22 legacy avionics. TACLink 16 will begin fielding with Increment 3.2B Full-Rate Production in 3rd Quarter FY2020 and continue through to FY2022. This program includes Mission Support Requirements and other government costs to include, but not limited to, support equipment, long-lead sets, and initial spares. The pre-Engineering & Manufacturing Development (EMD) Contract Change Proposal (CCP) to accelerate TACLink 16 is estimated to award in 1st Quarter FY2017. Cost and schedule for the program is an estimate and will not be final until the program baseline is completed.

Milestone/Development Status

TACLink 16 development begins in FY2017 and continues through FY2022.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	15.000	-	15.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	15.000	0.000	15.000	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 **P-1 Line Item Number / Title:** F02200 / F-22A **Modification Number / Title:** 2 / TACLink 16

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

Models of Systems Affected: F-22 **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0207138F

Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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> TACLink 16												
B Kits												
Recurring												
TACLink 16:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: TACLink 16</i>	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	0.000	0.000	0.000	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 2 / TACLink 16
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: TACLink 16

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Ft. Worth, TX
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Depot

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	18	18	18	-	-	-	-	-	-	-	-	0	72
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	18	-	-	-	-	-	-	-	-	0	72

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 3 / F119 Engine Modifications

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	53.893	15.900	14.500	14.469	0.000	14.469	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	53.893	15.900	14.500	14.469	0.000	14.469	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	53.893	15.900	14.500	14.469	0.000	14.469	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program includes F119 Engine modifications, depot labor, and the support equipment (SE) tooling required for F119 Engine upgrades to improve long-term engine sustainment. This program funds engine modifications for 186 aircraft and approximately 103 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, are 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 FY2011 and continue through FY2019; the 5th stage Integrally Bladed Rotor (IBR) is limited to 3,600 TAC depot induction started in CY2014 and ended in CY2017. 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 FY2013 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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.221	11.320	11.925	-	11.925	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.679	3.180	2.544	-	2.544	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	15.900	14.500	14.469	0.000	14.469	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F02200 / F-22A				Modification Number / Title: 3 / F119 Engine Modifications				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: F-22			Modification Type: Other				Related RDT&E PEs: 0207138F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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)	3,137 / 38.393	1,624 / 6.205	563 / 1.873	2,231 / 7.421	- / -	2,231 / 7.421	- / -	- / -	- / -	- / -	- / -	- / -
Engine Modification Kits:EQUIPMENT Group B (Guard)	382 / 4.046	571 / 1.095	99 / 0.331	394 / 1.310	- / -	394 / 1.310	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 42.439	- / 7.300	- / 2.204	- / 8.731	- / -	- / 8.731	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Engine Modification Kits</i>	- / 42.439	- / 7.300	- / 2.204	- / 8.731	- / -	- / 8.731	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / 42.439	- / 7.300	- / 2.204	- / 8.731	- / -	- / 8.731	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
OTHER GOVT	- / 1.560	- / 1.300	- / 0.900	- / 0.800	- / -	- / 0.800	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / 1.560	- / 1.300	- / 0.900	- / 0.800	- / -	- / 0.800	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1: Engine Modification Kits</i>	3,015 / 9.894	504 / 7.300	2,195 / 11.396	662 / 4.938	- / -	662 / 4.938	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	3,015 / 9.894	504 / 7.300	2,195 / 11.396	662 / 4.938	- / -	662 / 4.938	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	53.893	15.900	14.500	14.469	0.000	14.469	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 3 / F119 Engine Modifications
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	275 / 1.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	649 / 1.709	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	225 / 0.741	- / -	225 / 0.741	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	234 / 0.964	275 / 1.314	649 / 1.709	225 / 0.741	- / -	225 / 0.741	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	234	68	69	69	69	162	162	162	163	56	56	56	57	223	223	223	223	244	244	244	244	220	220	221	222	187	187	187	187	707	5,589
Out	234	68	69	69	69	162	162	162	163	56	56	56	57	223	223	223	223	244	244	244	244	220	220	221	222	187	187	187	187	707	5,589

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	2,781 / 8.930	229 / 5.986	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	Modification Number / Title: 3 / F119 Engine Modifications
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Modification Item 1 of 1: Engine Modification Kits

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	1,546 / 9.687	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	437 / 4.197	- / -	437 / 4.197	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2,781 / 8.930	229 / 5.986	1,546 / 9.687	437 / 4.197	- / -	437 / 4.197	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2,781	57	57	57	58	386	386	387	387	109	109	109	110	433	433	433	434	473	473	474	475	428	428	429	430	363	363	363	364	3,295	15,084
Out	2,781	57	57	57	58	386	386	387	387	109	109	109	110	433	433	433	434	473	473	474	475	428	428	429	430	363	363	363	364	3,295	15,084

UNCLASSIFIED

Exhibit P-40, Advance Procurement Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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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Program Elements for Code B Items: 0207138F	Other Related Program Elements: 0207138F
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Line Item MDAP/MAIS Code: 265

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	15.000	-	15.000	-	-	-	-	-	15.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	15.000	-	15.000	-	-	-	-	-	15.000
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	15.000	-	15.000	-	-	-	-	-	15.000

Description:

The TACLink-16 program accelerates fielding of key technologies previously aligned under the F-22 Tactical Mandates (TACMAN) program. FY 2018 Advance Procurement for TACLink 16 procures long lead materials associated with the production and deployment of the TacLink 16 program. The funds will procure specialized equipment to include benches, racks, trays, processors as well as titanium to support the group A installation of Polyalphaolefin (PAO) manifolds. TackLink 16 installation is currently projected to begin in FY 2021 and will retrofit 142 aircraft.

UNCLASSIFIED

Exhibit P-40, Advance Procurement Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
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
Program Elements for Code B Items: 0207138F		Other Related Program Elements: 0207138F

Line Item MDAP/MAIS Code: 265

Exhibits Schedule				Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	2 / TACLink 16			- / -	- / -	- / -	- / 15.000	- / -	- / 15.000
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / 15.000	- / -	- / 15.000

Exhibits Schedule				FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	2 / TACLink 16			- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 15.000

*** 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 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 a 16-24 month delay to start kit production and deployment, with titanium being the longest lead item. TAClink 16 is a new start.

UNCLASSIFIED

Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): FY 2018 Air Force										Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F02200 / F-22A							P-3a Number / Title: 2 / TACLink 16		
First System (2018) Award Date: November 2017		First System (2018) Completion Date: July 2018					Interval Between Systems: 6 Months					
TACLink 16		Production Leadtime <i>(Months)</i>	Prior Years <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>	FY 2022 <i>(Each)</i>	To Complete <i>(Each)</i>	Total <i>(Each)</i>
Quantity		24	-	-	-	-	-	-	-	-	-	-
Cost Elements		When Required <i>(Months)</i>	Prior Years <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>	FY 2022 <i>(\$ M)</i>	To Complete <i>(\$ M)</i>	Total <i>(\$ M)</i>
CFE												
Equipment		24	0.000	0.000	0.000	15.000	-	-	-	-	-	-
<i>Total: CFE</i>			<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>15.000</i>	-	-	-	-	-	-
Total Advance Procurement/Obligation Authority			-	-	-	15.000	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F02200 / F-22A	P-3a Number / Title: 2 / TACLink 16
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Cost Elements	QPA <i>(Each)</i>	FY 2018					Total Cost Request <i>(\$ M)</i>
		Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ M)</i>	Contract Forecast Date	2018 Qty <i>(Each)</i>	For FY	
CFE							
Equipment	-	24	0.208	Jan 2018	72		15.000
<i>Total: CFE</i>							15.000
Total Advance Procurement/Obligation Authority							15.000

Description:
Advance Procurement

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F2232B / Increment 3.2b
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207138F	Other Related Program Elements: 0605213F
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Line Item MDAP/MAIS Code: 474

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	92.825	76.410	107.756	0.000	107.756	13.081	20.373	6.013	0.000	-	316.458
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	28.500	-	2.000	-	2.000	-	-	-	-	-	30.500
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	64.325	76.410	105.756	0.000	105.756	13.081	20.373	6.013	0.000	-	285.958
Plus CY Advance Procurement (<i>\$ in Millions</i>)	28.500	-	2.000	-	-	-	-	-	-	-	-	30.500
Total Obligation Authority (<i>\$ in Millions</i>)	28.500	64.325	78.410	105.756	0.000	105.756	13.081	20.373	6.013	0.000	-	316.458

(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 FY 2022 therefore there is no cost to complete.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	64.325	78.410	82.286	-	82.286	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	23.470	-	23.470	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	64.325	78.410	105.756	-	105.756	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

P-1 Line Item Number / Title:
F2232B / Increment 3.2b

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207138F **Other Related Program Elements:** 0605213F

Line Item MDAP/MAIS Code: 474

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	11100 / INCREMENT 3.2B (Capability Improvement)				- / 0.000	- / 92.825	- / 76.410	- / 107.756	- / 0.000	- / 107.756
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 92.825	- / 76.410	- / 107.756	- / 0.000	- / 107.756

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	11100 / INCREMENT 3.2B (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 13.081	- / 20.373	- / 6.013	- / 0.000	- / -	- / 316.458

*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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F2232B / Increment 3.2b	Modification Number / Title: 11100 / INCREMENT 3.2B

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	92.825	76.410	107.756	0.000	107.756	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	28.500	-	2.000	-	2.000	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	64.325	76.410	105.756	0.000	105.756	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	28.500	-	2.000	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	28.500	64.325	78.410	105.756	0.000	105.756	-	-	-	-	-	-

(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	7.732	-	7.732	-	-	-	-	-	-
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 3rd Qtr. FY 2017; operational test & evaluation planned to begin in 4th Qtr. FY 2017.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	64.325	78.410	82.286	-	82.286	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	23.470	-	23.470	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	64.325	78.410	105.756	0.000	105.756	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F2232B / Increment 3.2b					Modification Number / Title: 11100 / INCREMENT 3.2B			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: F-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0605213F, 0207138F				
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 781.436	- / 115.603	- / 70.290	- / 13.600	- / -	- / 13.600	- / -	- / -	- / -	- / -	- / -	- / -
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	52 / 0.650	- / -	52 / 0.650	- / -	- / -	- / -	- / -	- / -	- / -
Inc 3.2B Kits:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	20 / 0.250	- / -	20 / 0.250	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / 0.500	- / 0.500	- / 0.900	- / -	- / 0.900	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
Inc 3.2B Kits:EQUIPMENT Group B (Active)	0 / 0.000	35 / 78.425	36 / 59.910	52 / 60.636	- / -	52 / 60.636	- / -	- / -	- / -	- / -	- / -	- / -
Inc 3.2B Kits:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	20 / 23.220	- / -	20 / 23.220	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 0.000	- / 78.425	- / 59.910	- / 83.856	- / -	- / 83.856	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Inc 3.2B Kits	- / 0.000	- / 78.925	- / 60.410	- / 84.756	- / -	- / 84.756	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Procurement, All Modification Items	- / 0.000	- / 78.925	- / 60.410	- / 84.756	- / -	- / 84.756	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
Data												
	- / -	- / 1.200	- / 3.500	- / 3.100	- / -	- / 3.100	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	- / 12.700	- / 12.500	- / 15.300	- / -	- / 15.300	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Support	- / -	- / 13.900	- / 16.000	- / 18.400	- / -	- / 18.400	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 1: Inc 3.2B Kits												
	- / -	- / -	- / -	35 / 4.600	- / -	35 / 4.600	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Installation	- / -	- / -	- / -	35 / 4.600	- / -	35 / 4.600	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	92.825	76.410	107.756	0.000	107.756	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F2232B / Increment 3.2b	Modification Number / Title: 11100 / INCREMENT 3.2B

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	35 / 4.600	- / -	35 / 4.600	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	35 / 4.600	- / -	35 / 4.600	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	0	143
Out	0	-	-	-	-	-	-	-	-	-	11	12	12	9	9	9	9	18	18	18	18	-	-	-	-	-	-	-	-	0	143

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Exhibit P-40, Advance Procurement Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	28.500	-	2.000	-	-	-	-	-	-	-	-	30.500
Net Procurement (P-1) (<i>\$ in Millions</i>)	28.500	-	2.000	-	-	-	-	-	-	-	-	30.500
Total Obligation Authority (<i>\$ in Millions</i>)	28.500	-	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: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule				Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	11100 / INCREMENT 3.2B			- / 28.500	- / -	- / 2.000	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 28.500	- / -	- / 2.000	- / -	- / -	- / -

Exhibits Schedule				FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	11100 / INCREMENT 3.2B			- / -	- / -	- / -	- / -	- / -	- / -
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): FY 2018 Air Force **Date:** May 2017

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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First System (2018) Award Date: February 2017	First System (2018) Completion Date: April 2017	Interval Between Systems: 2 Months
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	Production Leadtime <i>(Months)</i>	Prior Years <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>	FY 2022 <i>(Each)</i>	To Complete <i>(Each)</i>	Total <i>(Each)</i>
INCREMENT 3.2B											
Quantity	26	-	-	-	-	-	-	-	-	-	-

	When Required <i>(Months)</i>	Prior Years <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>	FY 2022 <i>(\$ M)</i>	To Complete <i>(\$ M)</i>	Total <i>(\$ M)</i>
Cost Elements											
CFE											
Equipment	26	28.500	0.000	2.000	0.000	-	-	-	-	-	-
<i>Total: CFE</i>		<i>28.500</i>	<i>0.000</i>	<i>2.000</i>	<i>0.000</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
Total Advance Procurement/Obligation Authority		28.500	-	2.000	-	-	-	-	-	-	-

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): FY 2018 Air Force **Date:** May 2017

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>	FY 2018					Total Cost Request <i>(\$ M)</i>
		Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ M)</i>	Contract Forecast Date	2018 Qty <i>(Each)</i>	For FY	
CFE							
Equipment	-						0.000
<i>Total: CFE</i>							0.000
Total Advance Procurement/Obligation Authority							-

Description:

FY 2017 Advance Procurement procures 1184 cable assemblies that are long lead items required for Full Rate (FRP) kit production scheduled to begin 3rd Qtr. FY 2018.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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: KC046A / KC-46A
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401221F	Other Related Program Elements: 0401221F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	6.213	0.000	6.213	29.014	39.707	72.298	86.262	0.000	233.494
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	6.213	0.000	6.213	29.014	39.707	72.298	86.262	0.000	233.494
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	6.213	0.000	6.213	29.014	39.707	72.298	86.262	0.000	233.494

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

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

Description:

The KC-46 will provide the capability to fuel joint and coalition receivers via a boom or drogue system on every mission and will also augment the airlift fleet with cargo, passenger, and aeromedical evacuation capabilities. The KC-46 will operate in day/night and adverse weather conditions to enable deployment, employment, sustainment, and redeployment of U.S. joint, allied, and coalition forces. The KC-46 will have communication, navigation, and surveillance equipment for world-wide operations; the capability to perform missions in chemical and biological environments; the ability to operate in up to medium threat environments with self-defense/protection (both active and passive) capabilities; and the necessary battle space awareness to mitigate survivability threats.

Justification:

FY 2018 funding consists of the integration of Service Bulletins (SBs)/Airworthiness Directives (ADs) and other reported issues to correct identified deficiencies, provide product improvements, and maintain Federal Aviation Administration (FAA) certification compliance for the aircraft.

Funding for FY 2018 is a New Start.

Other modifications to the KC-46 through the FYDP include R&M and Safety Mods, Pegasus Combat Capability (PC2) (M-Code Global Positioning System (GPS), Multifunctional Information Distribution Systems (MIDS) Low Volume Terminal (LVT) Block Upgrade (BU), and Oxygen Bottles), SBs/ADs, and Low Cost Mods (LCMs).

Funding for this exhibit contained in PE 0401221F.

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: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.775	0.000	24.192	36.592	0.000	36.592	85.322	82.357	40.808	36.384	0.000	307.430
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.775	0.000	24.192	36.592	0.000	36.592	85.322	82.357	40.808	36.384	0.000	307.430
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.775	0.000	24.192	36.592	0.000	36.592	85.322	82.357	40.808	36.384	0.000	307.430

(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 increase operational capability while improving flight safety, reliability, and maintainability.

There are 56 C-5A/B/C/M aircraft in the Air Force fleet as of 1 April 2017. 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 Sources(DMS) issues.

Reduction in FY18 is due to funds being early to need for the CNS/ATM Mode 5 Swift Broadband BLOS/LOS Radio program.

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	21.503	29.536	-	29.536	-	-	-	-
AFR	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	2.689	7.056	-	7.056	-	-	-	-
Total:	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Secondary Distribution	Total Obligation Authority	-	24.192	36.592	-	36.592	-	-	-	-

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UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	8966 / C-5 Mission Systems Equipment- Lavatory (Other)				- / -	- / -	- / 3.950	- / 6.129	- / -	- / 6.129
P-40a***	99999X / Low Cost Mods (Other)				- / 1.775	- / -	- / 0.428	- / -	- / -	- / -
P-3a	8967 / Mission Computer and Weather Radar (Other)				- / 0.000	- / 0.000	- / 19.814	- / 30.463	- / 0.000	- / 30.463
P-40	Total Gross/Weapon System Cost				- / 1.775	- / 0.000	- / 24.192	- / 36.592	- / 0.000	- / 36.592

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	8966 / C-5 Mission Systems Equipment- Lavatory (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Mods (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8967 / Mission Computer and Weather Radar (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 85.322	- / 82.357	- / 40.808	- / 36.384	- / 0.000	- / 307.430

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	19.814	30.463	0.000	30.463	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	19.814	30.463	0.000	30.463	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	19.814	30.463	0.000	30.463	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	-	1.559	2.172	-	2.172	-	-	-	-	-	-
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 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, which has reached maximum processing capacity, to obtain sufficient capability to allow integration of the WxRadar with margin for growth to accommodate future requirements. This includes requirements to meet calendar year 2020 FAA Automatic Dependent Surveillance-Broadcast (ADS-B) Out and communication, navigation, surveillance/air traffic management (CNS/ATM) requirements. The program will modify a total of 52 aircraft, 2 during Engineering and Manufacturing Development and 50 during Production.

The CMC modification is necessary to keep the C-5M worldwide deployable. This effort replaces the APS-133 WxRadar, resolving severe diminishing manufacturing source (DMS) issues, using the Rockwell Collins WXR-2100 commercial off-the-shelf WxRadar, which is common to other aircraft platforms, and provides the same capability as the APS-133.

To accomplish the CMC modification, the current core processing module (CPM) cards in the CMC are replaced with new Honeywell CPM II cards. 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 an 80%(threshold) to 120% (objective) spare capacity.

Failure to modify the CMC and replace the WxRadar will result in recently modified C-5Ms not being worldwide capable due to 2020 ADS-B Out and 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.

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), and over and above costs. Funding may be used to address DMS issues through analysis, bridge buys, life-of-type buys, etc. Installation costs vary due to the installation strategy of completing the modification as a standalone action or combining with a maintenance effort such as programmed depot maintenance (PDM). Group B costs include System Engineering/Program Management (SEPM)causing a variation in cost per kit.

There are a total of 7 trainers to be updated; 5 weapon systems trainers (WST) and 2 aircrew maintenance system trainers (AMST).

Milestone/Development Status

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar

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

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 and Manufacturing Development(EMD)activities of the 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 DT&E will be completed in May 2017.

The program office is conducting a full and open competition for the production kits, initial installation, and interim contract support (ICS) and initial spares. Preliminary plans call for the depot to perform the installations on the remaining aircraft.

RDT&E Milestones

Material Development Decision: 1Q 2012

Milestone B/Engineering and Manufacturing Development(EMD): 4Q 2013 EMD Contract Award: 2Q 2014

Preliminary Design Review: 1Q 2015

Critical Design Review: 4Q 2015

Development Test and Evaluation Complete: 3Q 2017

Operation Test and Evaluation Complete: 4Q 2017

Technical Data Package Delivery: 4Q 2017

Milestone C Complete: 1Q 2018

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	18.445	24.579	-	24.579	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.369	5.884	-	5.884	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	19.814	30.463	0.000	30.463	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3					P-1 Line Item Number / Title: C00500 / C-5					Modification Number / Title: 8967 / Mission Computer and Weather Radar			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-5M				Modification Type: Other				Related RDT&E PEs: 0401119F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 91.309	2 / 7.403	- / 11.837	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
Modification Item 1 of 1: CMC/WxRadar													
A Kits													
Recurring													
CMC/WxRadar:INSTALL KITS Group A (Active)	- / -	- / -	6 / 0.863	10 / 1.237	- / -	10 / 1.237	- / -	- / -	- / -	- / -	- / -	- / -	
CMC/WxRadar:INSTALL KITS Group A (Reserve)	- / -	- / -	1 / 0.144	5 / 0.618	- / -	5 / 0.618	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / -	- / -	- / 1.007	- / 1.855	- / -	- / 1.855	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
CMC/WxRadar:EQUIPMENT Group B (Active)	- / 0.000	- / -	6 / 7.351	10 / 10.531	- / -	10 / 10.531	- / -	- / -	- / -	- / -	- / -	- / -	
CMC/WxRadar:EQUIPMENT Group B (Guard)	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
CMC/WxRadar:EQUIPMENT Group B (Reserve)	- / 0.000	- / -	1 / 1.225	5 / 5.266	- / -	5 / 5.266	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 0.000	- / -	- / 8.576	- / 15.797	- / -	- / 15.797	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: CMC/WxRadar	- / 0.000	- / -	- / 9.583	- / 17.652	- / -	- / 17.652	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / 9.583	- / 17.652	- / -	- / 17.652	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
GROUP B: TOTAL NONRECURRING	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / -	- / 0.291	- / 0.775	- / -	- / 0.775	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / -	- / -	- / 2.120	- / 2.221	- / -	- / 2.221	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	- / -	- / -	3 / 6.127	1 / 1.853	- / -	1 / 1.853	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / -	- / -	- / 0.011	- / 0.027	- / -	- / 0.027	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / -	- / 0.131	- / 0.349	- / -	- / 0.349	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / -	- / -	- / 0.335	- / 0.891	- / -	- / 0.891	- / -	- / -	- / -	- / -	- / -	- / -	
A&AS	- / -	- / -	- / 0.175	- / 0.465	- / -	- / 0.465	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / -	- / -	- / 1.041	- / 2.574	- / -	- / 2.574	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Material	- / -	- / -	- / 0.000	- / 1.806	- / -	- / 1.806	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Labor	- / -	- / -	- / 0.000	- / 1.061	- / -	- / 1.061	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Support	- / 0.000	- / -	3 / 10.231	1 / 12.022	- / -	1 / 12.022	- / -	- / -	- / -	- / -	- / -	- / -	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: C-5M	Modification Type: Other	Related RDT&E PEs: 0401119F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	- / -	3 / 0.789	- / -	3 / 0.789	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	- / -	- / -	- / -	3 / 0.789	- / -	3 / 0.789	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	19.814	30.463	0.000	30.463	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C00500 / C-5	Modification Number / Title: 8967 / Mission Computer and Weather Radar

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

Manufacturer Information

Manufacturer Name: Source Selection	Manufacturer Location: TBD
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 6

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Feb 2018	Feb 2018				
Delivery Dates		Aug 2018	Aug 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	3 / 0.789	- / -	3 / 0.789	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	3 / 0.789	- / -	3 / 0.789	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	0	0	0	0	0	0	0	0	0	0	0	3	3	6	6	6	6	4	6	6	4	0	0	0	-	-	-	-	0	50
Out	0	0	0	0	0	0	0	0	0	0	0	0	3	3	6	6	6	6	4	6	6	4	0	0	0	-	-	-	-	0	50

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,720.453	0.000	0.000	6.817	0.000	6.817	0.000	0.000	0.000	0.000	-	3,727.270
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,720.453	0.000	0.000	6.817	0.000	6.817	0.000	0.000	0.000	0.000	-	3,727.270
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,720.453	0.000	0.000	6.817	0.000	6.817	0.000	0.000	0.000	0.000	-	3,727.270

(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 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 55 of those aircraft were retired as of 1 May 2017.

There are 56 C-5A/B/C/M aircraft in the Air Force fleet as of 1 May 2017. Four 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 four C-5As will be retired in CY2017 on a one-for-one basis as the unit receives the C-5M.

At the end of FY17 when the C-5A aircraft fleet is retired, the Air Force will have a fleet of 47 C-5M aircraft and five C-5B aircraft undergoing modification to the C-5M configuration.

Funding for this exhibit is contained in PE 0401119F. RERP incurred a schedule re-baseline in FY14 without a corresponding re-baseline in funding profile. The program will have 5 aircraft still in final stages of production in FY18 and therefore has requirements for fuel for test flights, government furnished property, PMA and final transition/shutdown activities. In FY18, C-5 RERP will be considered a New Start as the last year of funding was FY15.

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: FY 2018 Air Force **Date:** May 2017

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
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	188.533	43.697	21.555	125.522	26.850	152.372	125.352	89.182	98.077	96.839	205.609	1,021.216
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	188.533	43.697	21.555	125.522	26.850	152.372	125.352	89.182	98.077	96.839	205.609	1,021.216
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	188.533	43.697	21.555	125.522	26.850	152.372	125.352	89.182	98.077	96.839	205.609	1,021.216

(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 FY18 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.

Funding for this exhibit is contained in PE 0401130F.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	41.930	21.555	97.275	26.850	124.125	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.732	-	19.407	-	19.407	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force							Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft					P-1 Line Item Number / Title: C01700 / C-17A					
ID Code (A=Service Ready, B=Not Service Ready): B			Program Elements for Code B Items: 0401130F			Other Related Program Elements: 0401130F				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.035	-	8.840	-	8.840	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	43.697	21.555	125.522	26.850	152.372	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C01700 / C-17A

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0401130F **Other Related Program Elements:** 0401130F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	_2000 / Pylon Stub FFLZ, FF, Translating Fairing (Safety)				- / 78.978	- / 3.223	- / 8.750	- / 3.297	- / -	- / 3.297
P-40a***	_2590 / ELT Frequency Change (Capability Improvement)				- / 3.062	- / 0.000	- / -	- / 2.349	- / -	- / 2.349
P-40a***	_2633 / MFOQA (Capability Improvement)				- / 12.568	- / 1.502	- / -	- / -	- / -	- / -
P-40a***	_3080 / Replacement Heads Up Display (RHUD) (Capability Improvement)				- / -	- / -	- / -	- / 6.274	- / -	- / 6.274
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 3.117	- / -	- / -	- / 0.303	- / -	- / 0.303
P-3a	1508 / IFF GATM Mode 5 (Capability Improvement)				- / 67.206	- / 19.388	- / 10.318	- / 50.723	- / 0.000	- / 50.723
P-3a	2901 / NEXT GEN CNS/ATM (Capability Improvement)				- / 23.602	- / 19.584	- / 2.487	- / 22.920	- / 0.000	- / 22.920
P-3a	9740 / Fixed Installation Satellite Antenna (FISA) (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 39.656	- / 0.000	- / 39.656
P-3a	9745 / C-17 Real Time In the Cockpit (RTIC) (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 0.000	- / 26.850	- / 26.850
P-40	Total Gross/Weapon System Cost				- / 188.533	- / 43.697	- / 21.555	- / 125.522	- / 26.850	- / 152.372

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	_2000 / Pylon Stub FFLZ, FF, Translating Fairing (Safety)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	_2590 / ELT Frequency Change (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	_2633 / MFOQA (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	_3080 / Replacement Heads Up Display (RHUD) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1508 / IFF GATM Mode 5 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	2901 / NEXT GEN CNS/ATM (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9740 / Fixed Installation Satellite Antenna (FISA) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9745 / C-17 Real Time In the Cockpit (RTIC) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 125.352	- / 89.182	- / 98.077	- / 96.839	- / 205.609	- / 1,021.216

*** 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: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	67.206	19.388	10.318	50.723	0.000	50.723	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	67.206	19.388	10.318	50.723	0.000	50.723	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	67.206	19.388	10.318	50.723	0.000	50.723	-	-	-	-	-	-

(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) (174 each)
- Environmental Control System Controller: Display Controller Unit (ECSC: DCU) 281/A (192 each)
- Warning and Caution Computer (WCC) (195 each)
- Aero-Propulsion Data Management Computer (APDMC) (192 each)

This modification effort is part of the C-17 Common Configuration Program.

Installs are performed at Boeing Support Systems-San Antonio, Warner Robins Air Logistics Complex, Charleston AFB and McChord AFB.

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

Successfully completed kitproof and Operational Test & Evaluation, currently procuring modification kits.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

	Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.388	10.318	29.245	-	29.245	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	14.043	-	14.043	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	7.435	-	7.435	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.388	10.318	50.723	0.000	50.723	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-17				Modification Type: Capability Improvement				Related RDT&E PEs: 0401130F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
Modification Item 1 of 1: Mode 5													
B Kits													
Recurring													
Mode 5:EQUIPMENT Group B (Active)	53 / 44.992	38 / 16.170	38 / 6.374	41 / 16.935	- / -	41 / 16.935	- / -	- / -	- / -	- / -	- / -	- / -	
Mode 5:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	34 / 14.043	- / -	34 / 14.043	- / -	- / -	- / -	- / -	- / -	- / -	
Mode 5:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	18 / 7.435	- / -	18 / 7.435	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 44.992	- / 16.170	- / 6.374	- / 38.413	- / -	- / 38.413	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Mode 5	- / 44.992	- / 16.170	- / 6.374	- / 38.413	- / -	- / 38.413	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Procurement, All Modification Items	- / 44.992	- / 16.170	- / 6.374	- / 38.413	- / -	- / 38.413	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
Change Orders	- / 0.469	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	0 / 0.253	- / -	0 / 0.718	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / 1.028	- / 1.336	- / 2.695	- / 4.445	- / -	- / 4.445	- / -	- / -	- / -	- / -	- / -	- / -	
GFP	- / 17.257	- / 0.836	- / 0.513	- / 12.675	- / -	- / 12.675	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / 6.230	- / -	- / 0.018	- / 0.045	- / -	- / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	
Mod of Spares	- / -	- / -	- / -	- / 12.489	- / -	- / 12.489	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Support	0 / 15.237	- / 2.172	0 / 3.944	- / 9.654	- / -	- / 9.654	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
Modification Item 1 of 1: Mode 5	2 / 6.977	22 / 1.046	- / -	64 / 2.656	- / -	64 / 2.656	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Installation	2 / 6.977	22 / 1.046	- / -	64 / 2.656	- / -	64 / 2.656	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	67.206	19.388	10.318	50.723	0.000	50.723	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: Mode 5

Manufacturer Information

Manufacturer Name: The Boeing Company	Manufacturer Location: Long Beach, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 5.274	11 / 0.523	- / -	15 / 0.623	- / -	15 / 0.623	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	17 / 0.705	- / -	17 / 0.705	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 5.274	11 / 0.523	- / -	32 / 1.328	- / -	32 / 1.328	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	2	3	3	3	-	-	-	-	-	11	11	10	10	15	15	10	18	-	-	-	-	-	-	-	-	-	-	0	112	
Out	1	-	2	3	3	3	-	-	-	-	-	11	11	10	10	15	15	10	18	-	-	-	-	-	-	-	-	-	0	112	

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 1.703	11 / 0.523	- / -	14 / 0.581	- / -	14 / 0.581	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Modification Item 1 of 1: Mode 5

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	- / -	18 / 0.747	- / -	18 / 0.747	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 1.703	11 / 0.523	- / -	32 / 1.328	- / -	32 / 1.328	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	2	3	3	3	-	-	-	-	-	11	11	10	10	14	14	12	16	-	-	-	-	-	-	-	-	-	-	0	110	
Out	1	-	2	3	3	3	-	-	-	-	-	11	11	10	10	14	14	12	16	-	-	-	-	-	-	-	-	-	0	110	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 2901 / NEXT GEN CNS/ATM

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	23.602	19.584	2.487	22.920	0.000	22.920	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	23.602	19.584	2.487	22.920	0.000	22.920	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	23.602	19.584	2.487	22.920	0.000	22.920	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	1.190	1.150	0.480	-	0.480	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Phase I portion of this modification effort is part of the Common Configuration acquisition program.

Phase I - Surveillance Enhancements (FY15-FY18) will integrate an improved surveillance capability to meet new requirements for global civil airspace access and for safe operations in military-controlled airspace. This project will provide Automatic Dependent Surveillance - Broadcast (ADS-B) Out capability to meet mandated civil airspace requirements. Phase I installs will be performed concurrently with the IFF GATM Mode 5 installation.

CNS/ATM Phase I (ADS-B) Kit consists of:

ARINC 429 Cable

APX-119-531 Software Update

Precision Landing System Receiver (PLSR) -12 configuration

Funding may be used for Diminishing Manufacturing Sources (DMS) issues. Projected allocations by component subject to total force mission priorities and aircraft availability.

Milestone/Development Status

Development complete

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.584	2.487	18.155	-	18.155	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.765	-	4.765	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.584	2.487	22.920	0.000	22.920	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3				P-1 Line Item Number / Title: C01700 / C-17A				Modification Number / Title: 2901 / NEXT GEN CNS/ATM					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-17				Modification Type: Capability Improvement				Related RDT&E PEs: 0401130F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 64.165	- / 15.045	- / 1.840	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
Modification Item 1 of 1: CNS/ATMPhase 1													
A Kits													
Recurring													
CNS/ATMPhase 1:INSTALL KITS Group A (Active)	2 / 9.987	112 / 18.431	- / -	36 / 5.046	- / -	36 / 5.046	- / -	- / -	- / -	- / -	- / -	- / -	
CNS/ATMPhase 1:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	34 / 4.765	- / -	34 / 4.765	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 9.987	- / 18.431	- / -	- / 9.811	- / -	- / 9.811	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: CNS/ATMPhase 1	- / 9.987	- / 18.431	- / -	- / 9.811	- / -	- / 9.811	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Procurement, All Modification Items	- / 9.987	- / 18.431	- / -	- / 9.811	- / -	- / 9.811	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
Mod of Spares	- / 7.347	- / 1.153	- / 2.487	- / 2.969	- / -	- / 2.969	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	1 / 2.814	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
GFP	- / -	- / -	- / -	- / 3.431	- / -	- / 3.431	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / 1.318	- / -	- / -	- / 1.612	- / -	- / 1.612	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Support	1 / 11.479	- / 1.153	- / 2.487	- / 8.012	- / -	- / 8.012	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
Modification Item 1 of 1: CNS/ATMPhase 1	0 / 2.136	2 / 0.000	- / -	90 / 5.097	- / -	90 / 5.097	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Installation	- / 2.136	2 / -	- / -	90 / 5.097	- / -	90 / 5.097	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	23.602	19.584	2.487	22.920	0.000	22.920	-	-	-	-	-	-	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 2901 / NEXT GEN CNS/ATM

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

Manufacturer Information

Manufacturer Name: The Boeing Company	Manufacturer Location: Long Beach, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 1.068	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	45 / 2.548	- / -	45 / 2.548	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 1.068	1 / 0.000	- / -	45 / 2.548	- / -	45 / 2.548	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	15	15	15	12	14	13	7	19	-	-	-	-	-	-	-	-	-	-	-	-	0	111
Out	0	-	-	-	-	1	-	-	-	-	-	15	15	15	12	14	13	7	19	-	-	-	-	-	-	-	-	-	-	-	0	111

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 1.068	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 2901 / NEXT GEN CNS/ATM
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Modification Item 1 of 1: CNS/ATMPhase 1

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	- / -	45 / 2.549	- / -	45 / 2.549	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 1.068	1 / 0.000	- / -	45 / 2.549	- / -	45 / 2.549	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	15	15	15	12	14	14	6	19	-	-	-	-	-	-	-	-	-	-	-	0	111
Out	0	-	-	-	-	1	-	-	-	-	-	15	15	15	12	14	14	6	19	-	-	-	-	-	-	-	-	-	-	0	111

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 9740 / Fixed Installation Satellite Antenna (FISA)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	39.656	0.000	39.656	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	39.656	0.000	39.656	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	39.656	0.000	39.656	-	-	-	-	-	-

(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 9740, Fixed Installation Satellite Antenna (FISA), is a new start.

A C-17 Fixed Installation Satellite Antenna (FISA) enables high bandwidth satellite communications, allowing for greater, in flight situational awareness. It is a Group A-only SATCOM system which includes an antenna, radome, LRUs, wiring, and patch panel. FISA must be connected to an In-Vehicle Equipment (IVE) kit or Roll On/Roll Off (RO/RO) associated with a communications radio. Current 1st generation FISA I offers a high bandwidth Ku (commercial) band satellite communication capabilities. The 2nd generation FISA will offer a higher bandwidth Ka (military) band satellite communication capabilities. Capabilities include en route-beyond line of sight communications, Video teleconferencing, mission rehearsal, and upload/download of large graphic files. The FISA equipped A/C are utilized by the USAF, Other Government Agencies (OGA), United States Special Operations Command (USSOCOM), and U.S. Army.

Currently, there are 23 FISA I aircraft. The Army funded 30 new FISA aircraft in addition to 54 new USAF funded aircraft. The final goal being a minimum of 107 FISA aircraft fielded at multiple bases. Funding may be used to procure additional FISA aircraft and/or continue development and fielding of the 2nd generation FISA aircraft.

Funding may be used for Diminishing Manufacturing Sources (DMS)issues. Projected allocations by component subject to total force mission priorities and aircraft availability.

Milestone/Development Status

Development Complete

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	39.656	-	39.656	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	39.656	0.000	39.656	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 9740 / Fixed Installation Satellite Antenna (FISA)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: C-17	Modification Type: Capability Improvement	Related RDT&E PEs: 0401130F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: FISA</i>												
A Kits												
Recurring												
FISA:INSTALL KITS Group A (Active)	- / -	- / -	- / -	54 / 36.990	- / -	54 / 36.990	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 36.990	- / -	- / 36.990	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: FISA</i>	- / -	- / -	- / -	- / 36.990	- / -	- / 36.990	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 36.990	- / -	- / 36.990	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 2.666	- / -	- / 2.666	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 2.666	- / -	- / 2.666	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1: FISA</i>	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	39.656	0.000	39.656	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 9740 / Fixed Installation Satellite Antenna (FISA)

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

Manufacturer Information

Manufacturer Name: The Boeing Company	Manufacturer Location: Huntington Beach
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Apr 2018				
Delivery Dates			Apr 2019				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	13	13	14	14	-	-	-	-	-	-	-	-	-	-	-	-	0	54
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	13	13	14	14	-	-	-	-	-	-	-	-	-	-	-	0	54

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 9745 / C-17 Real Time In the Cockpit (RTIC)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	26.850	26.850	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	26.850	26.850	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	26.850	26.850	-	-	-	-	-	-

(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 9745, C-17 Real Time In the Cockpit (RTIC), is a new start. RTIC is a program designed to meet current real-world operations and Anti-Access/Area Denial threat environments. Currently, MAF crews lack situational awareness of the joint battle space and have increased difficulties with imminent threat warning. RTIC provides secure tactical/global data link capability and increased situational awareness.

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.

Milestone/Development Status

Development complete

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.000	26.850	26.850	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.000	-	0.000	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.000	-	0.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	26.850	26.850	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 9745 / C-17 Real Time In the Cockpit (RTIC)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: C-17	Modification Type: Capability Improvement	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: C-17 RTIC</i>												
A Kits												
Recurring												
C-17 RTIC:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / 0.000	38 / 20.913	38 / 20.913	- / -	- / -	- / -	- / -	- / -	- / -
C-17 RTIC:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
C-17 RTIC:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.000	- / 20.913	- / 20.913	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: C-17 RTIC</i>	- / -	- / -	- / -	- / 0.000	- / 20.913	- / 20.913	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 0.000	- / 20.913	- / 20.913	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1: C-17 RTIC</i>												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	38 / 5.937	38 / 5.937	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	0.000	26.850	26.850	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 9745 / C-17 Real Time In the Cockpit (RTIC)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: C-17 RTIC

Manufacturer Information

Manufacturer Name: THE BOEING COMPANY	Manufacturer Location: HUNTINGTON BEACH CA
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 12

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Jun 2018				
Delivery Dates			Jun 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	38 / 5.937	38 / 5.937	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	38 / 5.937	38 / 5.937	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	18	18	-	-	-	-	-	-	-	-	-	0	38
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	18	18	-	-	-	-	-	-	-	-	-	0	38

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.367	9.860	5.439	13.253	0.000	13.253	13.825	0.218	0.222	0.226	-	43.410
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.367	9.860	5.439	13.253	0.000	13.253	13.825	0.218	0.222	0.226	-	43.410
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.367	9.860	5.439	13.253	0.000	13.253	13.825	0.218	0.222	0.226	-	43.410

(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. Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration certification while improving flight safety, reliability, and maintainability. Support funding for emerging modification requirements to support PMA, A&AS, equipment and other as required.

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.

In FY 2016 Avionics Upgrades and FAA Mandates was a new start.

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

Funding for this exhibit contained in PE 0401314F.

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: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	70.472	39.464	35.235	79.449	0.000	79.449	3.903	1.932	1.968	2.007	-	234.430
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	70.472	39.464	35.235	79.449	0.000	79.449	3.903	1.932	1.968	2.007	-	234.430
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	70.472	39.464	35.235	79.449	0.000	79.449	3.903	1.932	1.968	2.007	-	234.430

(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. Support funding for emerging modification requirements to support PMA, A&AS, equipment and other as required.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration certification while improving flight safety, reliability, and maintainability.

In FY16 Mod 1117 / CNS/ATM Compliance was a new start.

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

Funding for this exhibit is contained in PE 0401314F.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	39.464	35.235	79.449	-	79.449	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	39.464	35.235	79.449	-	79.449	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	1110 / Nitrogen Generation System (Other)				- / 25.896	- / 0.000	- / -	- / 1.503	- / -	- / 1.503
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)				- / 0.010	- / 1.005	- / 0.005	- / 0.005	- / -	- / 0.005
P-40a***	99999SG / 99999SG - Service Bulletins - C-32B (Capability Improvement)				- / 1.860	- / 0.935	- / 1.000	- / 1.000	- / -	- / 1.000
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 0.010	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.005
P-40a***	99999XG / 99999XG - Low Cost Mods - C-32B (Capability Improvement)				- / 1.696	- / 0.885	- / 0.837	- / 0.874	- / -	- / 0.874
P-3a	1116 / WIDEBAND SATCOM (Capability Improvement)				- / 41.000	- / 35.634	- / 29.423	- / 53.425	- / 0.000	- / 53.425
P-3a	1117 / CNS/ATM Compliance (Capability Improvement)				- / -	- / 1.000	- / 3.965	- / 22.637	- / 0.000	- / 22.637
P-40	Total Gross/Weapon System Cost				- / 70.472	- / 39.464	- / 35.235	- / 79.449	- / 0.000	- / 79.449

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	1110 / Nitrogen Generation System (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999SG / 99999SG - Service Bulletins - C-32B (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999XG / 99999XG - Low Cost Mods - C-32B (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1116 / WIDEBAND SATCOM (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1117 / CNS/ATM Compliance (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 3.903	- / 1.932	- / 1.968	- / 2.007	- / -	- / 234.430

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C03200 / C-32A	Modification Number / Title: 1116 / WIDEBAND SATCOM

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	41.000	35.634	29.423	53.425	0.000	53.425	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	41.000	35.634	29.423	53.425	0.000	53.425	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	41.000	35.634	29.423	53.425	0.000	53.425	-	-	-	-	-	-

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

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

Description:

This 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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	35.634	29.423	53.425	-	53.425	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	35.634	29.423	53.425	0.000	53.425	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3				P-1 Line Item Number / Title: C03200 / C-32A						Modification Number / Title: 1116 / WIDEBAND SATCOM		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: C-32A				Modification Type: Capability Improvement				Related RDT&E PEs: 0401314F				
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Protected												
A Kits												
Recurring												
Protected:INSTALL KITS Group A (Active)	0 / 0.000	2 / 7.000	- / -	2 / 27.000	- / -	2 / 27.000	- / -	- / -	- / -	- / -	- / -	- / -
Protected:INSTALL KITS Group A (Guard)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Protected:INSTALL KITS Group A (Reserve)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 0.000	- / 7.000	- / -	- / 27.000	- / -	- / 27.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Protected	- / 0.000	- / 7.000	- / -	- / 27.000	- / -	- / 27.000	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 2: Wideband												
A Kits												
Recurring												
Wideband:INSTALL KITS Group A (Active)	- / -	2 / 12.650	2 / 13.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / 12.650	- / 13.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
Wideband:EQUIPMENT Group B (Active)	3 / 21.750	1 / 7.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 21.750	- / 7.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Wideband	- / 21.750	- / 19.900	- / 13.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Procurement, All Modification Items	- / 21.750	- / 26.900	- / 13.000	- / 27.000	- / -	- / 27.000	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 19.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Data	- / -	- / -	- / 0.673	- / 0.974	- / -	- / 0.974	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	- / 0.234	- / 0.250	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Support	- / 19.250	- / 0.234	- / 0.923	- / 1.474	- / -	- / 1.474	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 2: Protected	- / -	- / -	1 / 7.000	2 / 24.951	- / -	2 / 24.951	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 2: Wideband	- / -	1 / 8.500	2 / 8.500	1 / 0.000	- / -	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Installation	- / -	1 / 8.500	3 / 15.500	3 / 24.951	- / -	3 / 24.951	- / -	- / -	- / -	- / -	- / -	- / -
Total												

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C03200 / C-32A	Modification Number / Title: 1116 / WIDEBAND SATCOM
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: C-32A **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0401314F

Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	41.000	35.634	29.423	53.425	0.000	53.425	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C03200 / C-32A	Modification Number / Title: 1116 / WIDEBAND SATCOM

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Nov 2015	Nov 2016	Nov 2017				
Delivery Dates	Feb 2016	Feb 2017	Feb 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	1 / 7.000	1 / 0.000	- / -	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	1 / 24.951	- / -	1 / 24.951	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 7.000	2 / 24.951	- / -	2 / 24.951	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	4
Out	0	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	0	4

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C03200 / C-32A	Modification Number / Title: 1116 / WIDEBAND SATCOM
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	1 / 8.500	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	1 / 8.500	1 / 0.000	- / -	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	1 / 8.500	2 / 8.500	1 / 0.000	- / -	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	4
Out	0	-	-	-	-	1	-	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	4

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C03200 / C-32A	Modification Number / Title: 1117 / CNS/ATM Compliance
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	1.000	3.965	22.637	0.000	22.637	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	1.000	3.965	22.637	0.000	22.637	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	1.000	3.965	22.637	0.000	22.637	-	-	-	-	-	-

(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 ADS-B out/Mode 5 upgrade on Air Force C-32 aircraft for Communications, Navigation, Surveillance / Air Traffic Management (CNS/ATM) compliance. The C-32 is a commercial derivative of the Boeing 757-200 Extended Range Aircraft. Air Force C-32s maintain Federal Aviation Administration Certification (FAA).

This modification is an FAA/Global mandate. All aircraft flying in a controlled airspace are required to comply with CNS/ATM standards by 2019.

Milestone/Development Status

Commercial-off-the-shelf item with non-recurring engineering for integration

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.000	3.965	22.637	-	22.637	-	-	-	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.000	3.965	22.637	0.000	22.637	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3				P-1 Line Item Number / Title: C03200 / C-32A				Modification Number / Title: 1117 / CNS/ATM Compliance				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: C-32A			Modification Type: Capability Improvement				Related RDT&E PEs: 0401314F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: CNS/ATM</i>												
A Kits												
Recurring												
CNS/ATM:INSTALL KITS Group A (Active)	- / -	- / -	- / -	4 / 1.233	- / -	4 / 1.233	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 1.233	- / -	- / 1.233	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
CNS/ATM:EQUIPMENT Group B (Active)	- / -	- / -	- / -	4 / 7.862	- / -	4 / 7.862	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 7.862	- / -	- / 7.862	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: CNS/ATM</i>	- / -	- / -	- / -	- / 9.095	- / -	- / 9.095	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 9.095	- / -	- / 9.095	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING												
Data	- / -	- / -	- / 3.965	- / 12.350	- / -	- / 12.350	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	- / 1.000	- / -	- / 10.050	- / -	- / 10.050	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / 1.000	- / 3.965	- / 13.100	- / -	- / 13.100	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1: CNS/ATM</i>												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	1 / 0.442	- / -	1 / 0.442	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	1.000	3.965	22.637	0.000	22.637	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C03200 / C-32A	Modification Number / Title: 1117 / CNS/ATM Compliance
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: CNS/ATM

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: San Antonio, TX
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 3

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			May 2018				
Delivery Dates			Aug 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	1 / 0.442	- / -	1 / 0.442	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.442	- / -	1 / 0.442	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	0	4
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	0	4

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	73.409	12.361	5.004	15.423	0.000	15.423	5.775	2.936	0.463	0.472	-	115.843
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	73.409	12.361	5.004	15.423	0.000	15.423	5.775	2.936	0.463	0.472	-	115.843
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	73.409	12.361	5.004	15.423	0.000	15.423	5.775	2.936	0.463	0.472	-	115.843

(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. Support funding for emerging modification requirements to support PMA, A&AS, equipment and other as required.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration (FAA) certification while improving flight safety, reliability, and maintainability.

In FY 2016 CNS/ATM Compliance was a new start.

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

Funding for this exhibit is contained in PE 0401314F.

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: FY 2018 Air Force **Date:** May 2017

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: C130J0 / C-130J
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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
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Line Item MDAP/MAIS Code: 220

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	10.727	0.000	10.727	10.920	12.254	12.496	12.774	-	59.171
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	10.727	0.000	10.727	10.920	12.254	12.496	12.774	-	59.171
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	10.727	0.000	10.727	10.920	12.254	12.496	12.774	-	59.171

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

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

Description:

This funding line is actually part of C-130J Mod 5222, Block 8.1. An error created this new P-1 line. Request the FY18 funds, \$10,727,000 be moved to P-1 Line 48, C-130J Mods. We will correct the remaining years in the FY19 PB.

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: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft	P-1 Line Item Number / Title: GLID00 / GLIDER Mods
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0804748F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.196	0.134	0.394	0.136	0.000	0.136	0.138	0.139	0.142	0.145	-	5.424
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4.196	0.134	0.394	0.136	0.000	0.136	0.138	0.139	0.142	0.145	-	5.424
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.196	0.134	0.394	0.136	0.000	0.136	0.138	0.139	0.142	0.145	-	5.424

(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 FY18 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.

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: FY 2018 Air Force **Date:** May 2017

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: N/A	Other Related Program Elements: 0604233F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	14.968	12.765	35.706	0.000	35.706	26.035	11.702	26.975	14.280	2.607	145.038
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	14.968	12.765	35.706	0.000	35.706	26.035	11.702	26.975	14.280	2.607	145.038
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	14.968	12.765	35.706	0.000	35.706	26.035	11.702	26.975	14.280	2.607	145.038

(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 FY2018 include Aircrew Training Device (ATD) Modernization, Avionics Upgrades FAA Compliance, Canopy Fracture Initiation System, and Low Cost Modifications. Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

Funding for this exhibit contained in PE 0804740F.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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:** N/A **Other Related Program Elements:** 0604233F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	9873 / Canopy Fracture Initiation System (Reliability & Maintainability)				- / -	- / 0.558	- / 0.133	- / 0.069	- / -	- / 0.069
P-40a***	9878 / Aircrew Training Device (ATD) Modernization (Capability Improvement)				- / -	- / 13.337	- / 11.288	- / 5.060	- / -	- / 5.060
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / 1.073	- / 1.344	- / 1.716	- / -	- / 1.716
P-3a	9877 / Avionics Upgrades FAA Compliance (Reliability & Maintainability)				- / -	- / 0.000	- / 0.000	- / 28.861	- / 0.000	- / 28.861
P-40	Total Gross/Weapon System Cost				- / -	- / 14.968	- / 12.765	- / 35.706	- / 0.000	- / 35.706

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	9873 / Canopy Fracture Initiation System (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9878 / Aircrew Training Device (ATD) Modernization (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9877 / Avionics Upgrades FAA Compliance (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 26.035	- / 11.702	- / 26.975	- / 14.280	- / 2.607	- / 145.038

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: JPAT00 / T-6	Modification Number / Title: 9877 / Avionics Upgrades FAA Compliance

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	28.861	0.000	28.861	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	28.861	0.000	28.861	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	28.861	0.000	28.861	-	-	-	-	-	-

(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 9877, Avionics Upgrades FAA Compliance, is a new start.

The overall goal of the modification is to be in compliance with the 28 May 2010 Federal Aviation Administration (FAA) release of DoT/FAA, 14 CFR Par 91.225: Automatic Dependent Surveillance Broadcast (ADS-B) Out Performance Requirements to Support Air Traffic Control (ATC) Service Final Rule. This mandate stipulates that all aircraft required to have unrestricted access to operate in Classes A, B, and C airspace, certain Class E airspace, and other specified airspace requiring ADS-B Out, must be in compliance with this regulation by January 1, 2020. Upgrading to ADS-B Out will require significant avionics system modifications to the T-6 fleet and will include the addition of a WAAS capable GPS.

Milestone/Development Status

Development for this effort began in FY16 under PE 0604233F.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4				P-1 Line Item Number / Title: JPAT00 / T-6				Modification Number / Title: 9877 / Avionics Upgrades FAA Compliance				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: T-6A			Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0604233F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Model A Kits (3)												
A Kits												
Recurring												
Model A Kits:INSTALL KITS Group A (Active)	- / -	- / -	- / -	424 / 1.291	- / -	424 / 1.291	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / -	- / -	- / 1.291	- / -	- / 1.291	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Model A Kits (3)	- / -	- / -	- / -	- / 1.291	- / -	- / 1.291	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 2: Model B Kits												
B Kits												
Recurring												
Model B Kits:EQUIPMENT Group B (Active)	- / -	- / -	- / -	424 / 14.768	- / -	424 / 14.768	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / -	- / -	- / 14.768	- / -	- / 14.768	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Model B Kits	- / -	- / -	- / -	- / 14.768	- / -	- / 14.768	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Procurement, All Modification Items	- / -	- / -	- / -	- / 16.059	- / -	- / 16.059	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
OTHER GOVT	- / -	- / -	- / -	- / 10.750	- / -	- / 10.750	- / -	- / -	- / -	- / -	- / -	- / -
SIM/TRAINER	- / -	- / -	- / -	74 / 2.052	- / -	74 / 2.052	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Support	- / -	- / -	- / -	74 / 12.802	- / -	74 / 12.802	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	28.861	0.000	28.861	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4			P-1 Line Item Number / Title: JPAT00 / T-6			Modification Number / Title: 9877 / Avionics Upgrades FAA Compliance	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 2: Model A Kits (3)							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 4			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Sep 2018				
Delivery Dates			Jan 2019				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: JPAT00 / T-6	Modification Number / Title: 9877 / Avionics Upgrades FAA Compliance

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

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 4

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

Installation Information

Method of Implementation: Contract Field Team

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	126	119	110	88	-	-	-	-	-	-	-	-	-	-	-	-	0	443
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	126	119	110	88	-	-	-	-	-	-	-	-	-	-	-	-	0	443

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8.705	13.106	25.073	21.477	0.000	21.477	38.377	39.043	39.767	40.672	51.870	278.090
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	8.705	13.106	25.073	21.477	0.000	21.477	38.377	39.043	39.767	40.672	51.870	278.090
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8.705	13.106	25.073	21.477	0.000	21.477	38.377	39.043	39.767	40.672	51.870	278.090

(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 FY2018 is the Avionics Modification.

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

Funding for this exhibit contained in PE 0804741F.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)				- / 1.343	- / 0.296	- / 0.300	- / 0.305	- / -	- / 0.305
P-3a	8997 / Avionics Modification (Capability Improvement)				- / 7.362	- / 12.810	- / 24.773	- / 21.172	- / 0.000	- / 21.172
P-40	Total Gross/Weapon System Cost				- / 8.705	- / 13.106	- / 25.073	- / 21.477	- / 0.000	- / 21.477

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8997 / Avionics Modification (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 38.377	- / 39.043	- / 39.767	- / 40.672	- / 51.870	- / 278.090

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T00100 / T-1	Modification Number / Title: 8997 / Avionics Modification

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	7.362	12.810	24.773	21.172	0.000	21.172	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	7.362	12.810	24.773	21.172	0.000	21.172	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	7.362	12.810	24.773	21.172	0.000	21.172	-	-	-	-	-	-
<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>)	-	0.707	0.730	1.257	-	1.257	-	-	-	-	-	-
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. \$36M of FY17 and FY18 budgeted funds will be used for contract award, which supports kit proof and modification installations in a total of 15 aircraft.

Contract Award: The award is now projected to award in the 1st quarter of FY18. The program has been supplemented with A&AS 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: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4					P-1 Line Item Number / Title: T00100 / T-1					Modification Number / Title: 8997 / Avionics Modification			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-1A				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: T-1A Avionics Replacement Kit (ARK)</i>													
A Kits													
Recurring													
T-1A Avionics Replacement Kit (ARK):INSTALL KITS Group A (Active)	- / 0.000	- / -	- / -	9 / 1.229	- / -	9 / 1.229	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 1.229	- / -	- / 1.229	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
T-1A Avionics Replacement Kit (ARK):EQUIPMENT Group B (Active)	- / -	- / -	- / -	9 / 3.687	- / -	9 / 3.687	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 3.687	- / -	- / 3.687	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: T-1A Avionics Replacement Kit (ARK)</i>	- / 0.000	- / -	- / -	- / 4.916	- / -	- / 4.916	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 4.916	- / -	- / 4.916	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 5.857	- / 0.000	- / 15.230	- / 4.770	- / -	- / 4.770	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / -	- / 0.569	- / 0.918	- / -	- / 0.918	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / -	- / -	- / 1.430	- / 2.243	- / -	- / 2.243	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	- / -	- / -	- / -	1 / 1.042	- / -	1 / 1.042	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / -	- / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / 1.505	- / 2.810	- / 7.544	- / 2.182	- / -	- / 2.182	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 7.362	- / 12.810	- / 24.773	1 / 11.155	- / -	1 / 11.155	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1: T-1A Avionics Replacement Kit (ARK)</i>													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	9 / 5.101	- / -	9 / 5.101	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	7.362	12.810	24.773	21.172	0.000	21.172	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T00100 / T-1	Modification Number / Title: 8997 / Avionics Modification

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: T-1A Avionics Replacement Kit (ARK)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: Contractor Facility
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 1

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	9 / 5.101	- / -	9 / 5.101	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	9 / 5.101	- / -	9 / 5.101	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	0	0	2	2	5	0	7	8	9	9	8	7	7	8	8	9	8	8	8	8	9	8	40	178
Out	0	-	-	-	-	-	-	0	0	2	2	5	0	7	8	9	9	8	7	7	8	8	9	8	8	8	8	9	8	40	178

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	102.196	30.604	45.090	51.641	0.000	51.641	108.803	27.395	27.869	28.398	62.890	484.886
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	102.196	30.604	45.090	51.641	0.000	51.641	108.803	27.395	27.869	28.398	62.890	484.886
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	102.196	30.604	45.090	51.641	0.000	51.641	108.803	27.395	27.869	28.398	62.890	484.886

(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-38's in the Air Force inventory (53 T-38A, 6 AT-38B and 446 T-38C) with 5 T-38C's pending removal. The T-38 first entered service in 1961 and the average age is over 49 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 may be used to address Diminishing Manufacturing Sources (DMS) issues.

Funding for this exhibit contained in PE 0804741F.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	6092 / T-38 A/B ADS-B Out (Reliability & Maintainability)				- / -	- / -	- / 7.685	- / -	- / -	- / -
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)				- / 0.029	- / 0.000	- / 0.005	- / 0.005	- / -	- / 0.005
P-40a***	99999X / Low Cost Modifications (Service Life Extension)				- / 0.031	- / 0.000	- / 0.006	- / 0.006	- / -	- / 0.006
P-3a	6088 / Pacer Classic III (Service Life Extension)				- / 102.136	- / 3.921	- / 31.255	- / 22.500	- / 0.000	- / 22.500
P-3a	6090 / T-38 Avionics (Reliability & Maintainability)				- / 0.000	- / 26.683	- / 6.139	- / 29.130	- / 0.000	- / 29.130
P-40	Total Gross/Weapon System Cost				- / 102.196	- / 30.604	- / 45.090	- / 51.641	- / 0.000	- / 51.641

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	6092 / T-38 A/B ADS-B Out (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	6088 / Pacer Classic III (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	6090 / T-38 Avionics (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 108.803	- / 27.395	- / 27.869	- / 28.398	- / 62.890	- / 484.886

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6088 / Pacer Classic III

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	102.136	3.921	31.255	22.500	0.000	22.500	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	102.136	3.921	31.255	22.500	0.000	22.500	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	102.136	3.921	31.255	22.500	0.000	22.500	-	-	-	-	-	-
<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:

Pacer Classic III (PC III) is a depot-level modification program which replaces known life-limited components and ensures structural sustainment of 180 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. 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 2016-037. 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.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4				P-1 Line Item Number / Title: T03800 / T-38				Modification Number / Title: 6088 / Pacer Classic III				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: T-38			Modification Type: Service Life Extension				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Aircraft Modification Kits</i>												
A Kits												
Recurring												
Aircraft Modification Kits:INSTALL KITS Group A (Active)	85 / 33.747	0 / 0.000	18 / 7.200	14 / 5.600	- / -	14 / 5.600	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 33.747	- / 0.000	- / 7.200	- / 5.600	- / -	- / 5.600	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Aircraft Modification Kits</i>	- / 33.747	- / 0.000	- / 7.200	- / 5.600	- / -	- / 5.600	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / 33.747	- / 0.000	- / 7.200	- / 5.600	- / -	- / 5.600	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	0 / 17.791	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
OTHER GOVT	- / 12.263	- / -	- / 0.300	- / 0.125	- / -	- / 0.125	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Contractor Services	- / 2.039	- / 0.400	- / 0.630	- / 0.200	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / 1.066	- / -	- / 0.040	- / 0.040	- / -	- / 0.040	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	0 / 33.159	- / 0.400	- / 0.970	- / 0.365	- / -	- / 0.365	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1: Aircraft Modification Kits</i>	28 / 35.230	3 / 3.521	21 / 23.085	18 / 16.535	- / -	18 / 16.535	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	28 / 35.230	3 / 3.521	21 / 23.085	18 / 16.535	- / -	18 / 16.535	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	102.136	3.921	31.255	22.500	0.000	22.500	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6088 / Pacer Classic III

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

Manufacturer Information

Manufacturer Name: Northrop Grumman Tech Services	Manufacturer Location: Herndon, VA
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 18

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Jul 2017	Jun 2018				
Delivery Dates		Jan 2019	Dec 2019				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 35.230	3 / 3.521	21 / 23.085	18 / 16.535	- / -	18 / 16.535	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	28 / 35.230	3 / 3.521	21 / 23.085	18 / 16.535	- / -	18 / 16.535	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	0	1	1	1	5	5	6	5	4	4	5	5	4	4	5	5	5	4	5	4	5	4	5	4	5	4	5	4	38	180
Out	19	4	5	0	1	1	1	5	5	6	5	4	4	5	5	4	4	5	5	5	4	5	4	5	4	5	4	5	4	47	180

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38 Avionics

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	26.683	6.139	29.130	0.000	29.130	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	26.683	6.139	29.130	0.000	29.130	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	26.683	6.139	29.130	0.000	29.130	-	-	-	-	-	-

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

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

Description:

The T-38C Avionics Upgrade Program 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 Avionics Upgrade Program modification was completed in 2007 and utilized a Commercial Off-The-Shelf/Non-Developmental Item approach to acquire kits. The system is in the operations and maintenance phase. Off-equipment repair of the Line Replaceable Units, engineering and software support services is provided via Contractor Logistics Support. The current contract, FA8211-12-C-0001, identified significant obsolescence issues with the Heads-Up Display system, the Mission Display Processor, Very High Frequency Communication receiver transmitter and the Very High Frequency Navigation radio.

Contract #FA8211-16-D-0001 was awarded 8 January 2016. The contract is a Type D Indefinite Delivery, Indefinite Quantity contract competitively awarded to address T-38C avionics system obsolescence issues and provide Contractor Logistics Support follow-on contract support. Avionics system Diminishing Manufacturing Sources and Material Shortages mitigation efforts began immediately upon award and the follow-on Contractor Logistics Support effort will be begin upon completion of the current contract (FA8211-12-C-0001), 1 April 2017.

Mitigation plans include the following: The program began non-recurring development in FY2016 for a replacement Mission Display Processor, Very High Frequency Communication receiver transmitter and the Very High Frequency Navigation radio and refurbishment of the Heads-Up Display System. Procurement of the Mission Display Processor, Very High Frequency Communication receiver transmitter and the Very High Frequency Navigation radio began in FY2016 with Heads-Up Display System procurement to begin in FY2017.

The Federal Aviation Administration has mandated that all aircraft flying in Federal Aviation Administration controlled air space be equipped with Automatic Dependent Surveillance - Broadcast (ADS-B) Out equipment by 1 January 2020. The T-38C program began development and integration of a solution upon FA8211-16-D-0001 contract award in January 2016 and procurement will begin in FY2017.

Milestone/Development Status

The Mission Display Processor is in Critical Design Review is complete and EMD unit is in integration test at the Systems Integration Lab.

The Heads-Up Display Critical Design Review is complete and EMD unit is in integration test at the Systems Integration Lab.

The Very High Frequency Radios Critical Design Review is complete and EMD unit is in integration test at the Systems Integration Lab.

The T-38C Automatic Dependent Surveillance-Broadcast solution Preliminary Design Review is scheduled for March 2017. The EMD unit is in integration test at the Systems Integration Lab.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4					P-1 Line Item Number / Title: T03800 / T-38					Modification Number / Title: 6090 / T-38 Avionics			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-38				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0604233F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: Heads-Up Display System													
B Kits													
Recurring													
Heads-Up Display System:EQUIPMENT Group B (Active)	- / -	- / -	101 / 3.154	197 / 20.111	- / -	197 / 20.111	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / -	- / -	- / 3.154	- / 20.111	- / -	- / 20.111	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Heads-Up Display System	- / -	- / -	- / 3.154	- / 20.111	- / -	- / 20.111	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 2 of 4: Mission Display Processor													
B Kits													
Recurring													
Mission Display Processor:EQUIPMENT Group B (Active)	- / -	442 / 16.560	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / -	- / 16.560	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Mission Display Processor	- / -	- / 16.560	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 3 of 4: T-38C ADS-B													
A Kits													
Recurring													
T-38C ADS-B:INSTALL KITS Group A (Active)	- / -	- / -	246 / 0.968	196 / 0.771	- / -	196 / 0.771	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / -	- / -	- / 0.968	- / 0.771	- / -	- / 0.771	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
T-38C ADS-B:EQUIPMENT Group B (Active)	- / -	- / -	246 / 2.017	196 / 3.748	- / -	196 / 3.748	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / -	- / -	- / 2.017	- / 3.748	- / -	- / 3.748	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: T-38C ADS-B	- / -	- / -	- / 2.985	- / 4.519	- / -	- / 4.519	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 4 of 4: VHF Nav/Comm Radios													
A Kits													
Recurring													
VHF Nav/Comm Radios:INSTALL KITS Group A (Active)	- / -	170 / 0.033	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / -	- / 0.033	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4 **P-1 Line Item Number / Title:** T03800 / T-38 **Modification Number / Title:** 6090 / T-38 Avionics

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

Models of Systems Affected: T-38 **Modification Type:** Reliability & Maintainability **Related RDT&E PEs:** 0604233F

Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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												
VHF Nav/Comm Radios:EQUIPMENT Group B (Active)	- / -	170 / 10.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / 10.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: VHF Nav/Comm Radios</i>	- / -	- / 10.123	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 26.683	- / 6.139	- / 24.630	- / -	- / 24.630	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
OTHER GOVT	- / -	- / -	- / -	- / 4.500	- / -	- / 4.500	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 4.500	- / -	- / 4.500	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	26.683	6.139	29.130	0.000	29.130	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4			P-1 Line Item Number / Title: T03800 / T-38			Modification Number / Title: 6090 / T-38 Avionics	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 4: Heads-Up Display System							
Manufacturer Information							
Manufacturer Name: Boeing				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 21			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Oct 2017	Oct 2018				
Delivery Dates		Jul 2019	Jul 2020				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 442		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38 Avionics
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 2 of 4: Mission Display Processor

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis, MO
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 27
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Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jun 2016						
Delivery Dates	Sep 2018						

Installation Information

Method of Implementation: Contract Field Team

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	221	221	-	-	-	-	-	-	-	-	-	-	-	-	0	442
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	221	221	-	-	-	-	-	-	-	-	-	-	-	-	0	442

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Exhibit P-3a, Individual Modification: FY 2018 Air Force	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38 Avionics
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 3 of 4: T-38C ADS-B

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis, MO
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Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 18
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Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Dec 2016	Dec 2017				
Delivery Dates		Jun 2018	Jun 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	221	221	-	-	-	-	-	-	-	-	-	-	-	-	0	442
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	221	221	-	-	-	-	-	-	-	-	-	-	-	-	0	442

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Exhibit P-3a, Individual Modification: FY 2018 Air Force	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4	P-1 Line Item Number / Title: T03800 / T-38	Modification Number / Title: 6090 / T-38 Avionics
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 4 of 4: VHF Nav/Comm Radios

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis, MO
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 26
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Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jun 2016						
Delivery Dates	Aug 2018						

Installation Information

Method of Implementation: Contract Field Team

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	221	221	-	-	-	-	-	-	-	-	-	-	-	-	0	442
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	221	221	-	-	-	-	-	-	-	-	-	-	-	-	0	442

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	22.095	36.074	36.406	0.000	36.406	52.167	56.947	55.801	46.585	-	306.075
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	22.095	36.074	36.406	0.000	36.406	52.167	56.947	55.801	46.585	-	306.075
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	22.095	36.074	36.406	0.000	36.406	52.167	56.947	55.801	46.585	-	306.075
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ 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 continued 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: FY 2018 Air Force		Date: May 2017
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		
<p>In the 2018 PB, the Air Force decided to retain the U-2 through FY22, funding investment and manpower in base, and the majority of operations and sustainment in OCO. 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. These acquisition efforts will 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.</p>		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	4494 / U-2 Mod (Other)				- / -	- / 22.095	- / 36.074	- / 36.406	- / 0.000	- / 36.406
P-40	Total Gross/Weapon System Cost				- / -	- / 22.095	- / 36.074	- / 36.406	- / 0.000	- / 36.406

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	4494 / U-2 Mod (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 52.167	- / 56.947	- / 55.801	- / 46.585	- / -	- / 306.075

*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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: 11U200 / U-2 Mods	Modification Number / Title: 4494 / U-2 Mod

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	22.095	36.074	36.406	0.000	36.406	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	22.095	36.074	36.406	0.000	36.406	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	22.095	36.074	36.406	0.000	36.406	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The 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) procurement, sustainment, and enhancements to support collection capability and capacity requirements to meet global ISR requirements.
- Multi-Spectral Sensor 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 and enhancement: Development, integration and test of beyond line of sight (BLOS) and tactical data links (L-16, IFDL, MADL, etc.) in support of operational requirements and to mitigate DMSMS.
- Modification programs in support safety of flight, DMSMS concerns, support of operational capability and capacity requirements to include: airframe sustainment, Egress System Sustainment and Suitability Effort, helmet and Full Pressure Suit technical refresh, avionics, mission planning, navigation system and stellar tracker initiatives, Open Mission Systems and Unmanned Aerospace Systems Command and Control Standard Initiative (OMS/UCI) standards compliance, payload sensors, and associated ground support equipment.
- Signals Intelligence (SIGINT) system sustainment, 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: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: 11U200 / U-2 Mods					Modification Number / Title: 4494 / U-2 Mod			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: U-2				Modification Type: Other				Related RDT&E PEs: 0305202F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / 34.471	- / 37.217	- / 34.486	- / -	- / 34.486	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
Modification Item 1 of 1: U-2 Update Block 20-1													
A Kits													
Recurring													
U-2 Update Block 20-1:INSTALL KITS Group A (Active)	- / -	2 / 19.395	2 / 32.574	8 / 22.406	- / -	8 / 22.406	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / 19.395	- / 32.574	- / 22.406	- / -	- / 22.406	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: U-2 Update Block 20-1</i>	- / -	- / 19.395	- / 32.574	- / 22.406	- / -	- / 22.406	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 19.395	- / 32.574	- / 22.406	- / -	- / 22.406	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
Modification Item 1 of 1: U-2 Update Block 20-1	- / -	2 / 2.700	2 / 3.500	8 / 14.000	- / -	8 / 14.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / -	2 / 2.700	2 / 3.500	8 / 14.000	- / -	8 / 14.000	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	22.095	36.074	36.406	0.000	36.406	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: 11U200 / U-2 Mods	Modification Number / Title: 4494 / U-2 Mod
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: U-2 Update Block 20-1

Manufacturer Information

Manufacturer Name: Details Classified Manufacturer Location: Details Classified

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 6

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

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	2 / 2.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	2 / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	8 / 14.000	- / -	8 / 14.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	2 / 2.700	2 / 3.500	8 / 14.000	- / -	8 / 14.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	3	2	2	2	3	2	2	2	8	8	4	2	4	4	2	2	0	64
Out	0	-	2	-	-	-	-	-	2	2	2	2	3	2	2	2	3	2	2	2	8	8	4	2	4	4	2	2	0	64

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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, 0401897F	Other Related Program Elements: 0401219F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	39.267	5.611	4.570	4.243	0.000	4.243	6.095	5.149	3.992	3.472	-	72.399
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	39.267	5.611	4.570	4.243	0.000	4.243	6.095	5.149	3.992	3.472	-	72.399
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	39.267	5.611	4.570	4.243	0.000	4.243	6.095	5.149	3.992	3.472	-	72.399

(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 the fleet of 59 KC-10 aircraft with a projected service life until 2042. On average, the aircraft are 31 years old with 24 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 Mode-5 Identification Friend or Foe (IFF) Surveillance in combination with an FAA mandated Automatic Dependent Surveillance-Broadcast (ADS-B) upgrade, and Service Bulletins (SBs) that address obsolescence issues, provide worldwide civil airspace accessibility, and incorporate aging aircraft and FAA certification requirements.

Funding may be used to address diminishing manufacturing sources (DMS) issues.

Funding for this exhibit is contained in PE 0401219F and PE 0401897F

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: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2.836	2.080	1.995	5.846	0.000	5.846	4.940	4.978	5.017	2.191	-	29.883
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2.836	2.080	1.995	5.846	0.000	5.846	4.940	4.978	5.017	2.191	-	29.883
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2.836	2.080	1.995	5.846	0.000	5.846	4.940	4.978	5.017	2.191	-	29.883

(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 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. Support funding for emerging modification requirements to support PMA, A&AS, equipment and other as required.

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

Funding for this exhibit contained in PE 0401314F.

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: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: C02500 / VC-25A Mod
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.835	114.231	102.670	52.107	0.000	52.107	37.241	49.009	0.993	1.013	0.000	358.099
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.835	114.231	102.670	52.107	0.000	52.107	37.241	49.009	0.993	1.013	0.000	358.099
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.835	114.231	102.670	52.107	0.000	52.107	37.241	49.009	0.993	1.013	0.000	358.099

(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-25A presidential support aircraft, a commercial derivative of the commercial Boeing 747-200. The aircraft are commonly referred to as "Air Force One." The aircraft were purchased in FY87, modified by Boeing to meet presidential requirements, and delivered in FY91. The projected service life is 30 years. These on-going modifications are to extend that service life until the Presidential Aircraft Recapitalization (PAR) aircraft are fielded in the 2024 timeframe. Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration airworthiness certification while improving flight safety, reliability, and maintainability. Support funding for emerging modification requirements to support PMA, A&AS, equipment and other as required.

VC-25 Block Upgrades ensures aircraft viability until the Presidential Aircraft Recapitalization program reaches full operational capability by installing protected satellite communications, upgraded chillers, Nitrogen Generation System, weather radar, digital/voice data systems, and network capabilities.

In FY 2016 Wideband SATCOM was a new start.
In FY 2016 VC-25 Block Upgrade was a new start.

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

Funding for this exhibit contained in PE 0401314F

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	9714 / WIDEBAND SATCOM (Capability Improvement)				- / -	- / 28.000	- / -	- / -	- / -	- / -
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)				- / 0.635	- / 0.131	- / 0.236	- / 0.893	- / -	- / 0.893
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 0.200	- / 1.999	- / 0.100	- / 0.100	- / -	- / 0.100
P-3a	9711 / C-25 Avionics Modernization Program (Capability Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 18.000	- / 0.000	- / 18.000
P-3a	9715 / VC-25 Block Upgrade (Capability Improvement)				- / -	- / 84.101	- / 102.334	- / 33.114	- / 0.000	- / 33.114
P-40	Total Gross/Weapon System Cost				- / 0.835	- / 114.231	- / 102.670	- / 52.107	- / 0.000	- / 52.107

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	9714 / WIDEBAND SATCOM (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9711 / C-25 Avionics Modernization Program (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9715 / VC-25 Block Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 37.241	- / 49.009	- / 0.993	- / 1.013	- / 0.000	- / 358.099

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C02500 / VC-25A Mod	Modification Number / Title: 9711 / C-25 Avionics Modernization Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	18.000	0.000	18.000	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	18.000	0.000	18.000	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	18.000	0.000	18.000	-	-	-	-	-	-

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

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

Description:

This funding request installs the Avionics Modernization Program (AMP) upgrade on one (1) VC-25A aircraft. The other VC-25A AMP modification will be accomplished under the RDT&E portion of this modification. AMP upgrades install a modern, digital cockpit avionics system using a systems approach to aid pilot awareness and alleviate task saturation, enhancing flight safety in a high technology, concentrated airspace environment. The AMP modification also encompasses compliance with civil and military mandates for worldwide air traffic management including Automatic Dependent Surveillance-Broadcast (ADS-B) and Identification Friend or Foe (IFF) Mode 5 transponders and provide an improved Advisory Vertical Navigation (VNAV) capability. It will incorporate multiple subsystems, to include but not limited to ground maneuver camera system, large cockpit displays, and navigation radios to increase the utility and safety of the VC-25A. Installation is aligned with the aircraft heavy maintenance (depot) schedule to maximize availability.

Milestone/Development Status

Systems Integration Laboratory (SIL) set-up accomplished in FY12, FY13 and FY14. Preliminary Design Review (PDR) was accomplished in 4Q FY14, Design and Ground Test expected from 4Q FY17 through 1Q FY18. Flight Test and Evaluation from 1Q FY18 through 3Q FY18.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C02500 / VC-25A Mod				Modification Number / Title: 9711 / C-25 Avionics Modernization Program					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: VC-25A				Modification Type: Capability Improvement				Related RDT&E PEs: 0401314F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 #													
0401314F	1 / 59.918	- / 46.453	- / 13.817	- / 6.681	- / -	- / 6.681	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
<i>Modification Item 1 of 1: AMP</i>													
B Kits													
Recurring													
AMP:EQUIPMENT Group B (Active)	- / -	- / -	- / -	1 / 17.570	- / -	1 / 17.570	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 17.570	- / -	- / 17.570	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: AMP</i>	- / -	- / -	- / -	- / 17.570	- / -	- / 17.570	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 17.570	- / -	- / 17.570	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.430	- / -	- / 0.430	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 0.430	- / -	- / 0.430	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	18.000	0.000	18.000	-	-	-	-	-	-	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C02500 / VC-25A Mod	Modification Number / Title: 9711 / C-25 Avionics Modernization Program

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

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: San Antonio, TX
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 4

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Nov 2017				
Delivery Dates			Mar 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	0	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	84.101	102.334	33.114	0.000	33.114	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	84.101	102.334	33.114	0.000	33.114	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	84.101	102.334	33.114	0.000	33.114	-	-	-	-	-	-

(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.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: VC-25A				Modification Type: Capability Improvement				Related RDT&E PEs: 0401314F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 Upgrade</i>													
A Kits													
Recurring													
Block Upgrade:INSTALL KITS Group A (Active)	- / -	1 / 35.401	1 / 22.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / 35.401	- / 22.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Block Upgrade</i>	- / -	- / 35.401	- / 22.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 35.401	- / 22.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / 43.400	- / 31.034	- / 23.352	- / -	- / 23.352	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / -	- / 11.400	- / 16.500	- / 6.262	- / -	- / 6.262	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / 3.900	- / 3.400	- / 3.500	- / -	- / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / 48.700	- / 50.934	- / 33.114	- / -	- / 33.114	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1: Block Upgrade</i>													
<i>Subtotal: Installation</i>	- / -	- / -	1 / 29.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	84.101	102.334	33.114	0.000	33.114	-	-	-	-	-	-	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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): 15

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Mar 2016	Jun 2017					
Delivery Dates	Jun 2017	Sep 2018					

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	1 / 29.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 29.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	0	2

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	61.411	9.920	13.984	31.119	0.000	31.119	0.253	0.258	0.263	0.269	-	117.477
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	61.411	9.920	13.984	31.119	0.000	31.119	0.253	0.258	0.263	0.269	-	117.477
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	61.411	9.920	13.984	31.119	0.000	31.119	0.253	0.258	0.263	0.269	-	117.477

(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. Support funding for emerging modification requirements to support PMA, A&AS, equipment and other as required.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration (FAA) certification while improving flight safety, reliability, and maintainability.

In FY 2016 CNS/ATM Compliance was a new start.

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

Funding for this exhibit contained in PE 0401314F.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.120	13.984	15.711	-	15.711	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.300	-	4.978	-	4.978	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.500	-	10.430	-	10.430	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Secondary Distribution	Total Obligation Authority	9.920	13.984	31.119	-	31.119	-	-	-	-

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UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	1110 / Nitrogen Generation System (Other)				- / 8.950	- / 0.900	- / -	- / -	- / -	- / -
P-40a***	1118 / WIDEBAND SATCOM (Capability Improvement)				- / 52.000	- / 7.900	- / 10.900	- / -	- / -	- / -
P-40a***	1120 / Crew Rest Seats (Capability Improvement)				- / -	- / -	- / -	- / 7.551	- / -	- / 7.551
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)				- / 0.231	- / 0.136	- / 0.143	- / 0.298	- / -	- / 0.298
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 0.230	- / 0.015	- / 0.100	- / 0.200	- / -	- / 0.200
P-3a	1119 / CNS/ATM Compliance (Capability Improvement)				- / -	- / 0.969	- / 2.841	- / 23.070	- / 0.000	- / 23.070
P-40	Total Gross/Weapon System Cost				- / 61.411	- / 9.920	- / 13.984	- / 31.119	- / 0.000	- / 31.119

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	1110 / Nitrogen Generation System (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	1118 / WIDEBAND SATCOM (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	1120 / Crew Rest Seats (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1119 / CNS/ATM Compliance (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 0.253	- / 0.258	- / 0.263	- / 0.269	- / -	- / 117.477

*** 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: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C04000 / C-40	Modification Number / Title: 1119 / CNS/ATM Compliance
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.969	2.841	23.070	0.000	23.070	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.969	2.841	23.070	0.000	23.070	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.969	2.841	23.070	0.000	23.070	-	-	-	-	-	-

(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 ADS-B out/Mode 5 upgrade on Air Force C-40 aircraft for Communications, Navigation, Surveillance / Air Traffic Management (CNS/ATM) compliance. The C-40 is a commercial derivative of the Boeing 737-700 Business Jet. Air Force C-40s maintain Federal Aviation Administration Certification (FAA). This modification is an FAA/Global mandate. All aircraft flying in a controlled airspace are required to comply with CNS/ATM standards by Jan 2020.

Milestone/Development Status

Commercial-off-the-shelf item with non-recurring engineering for integration

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.969	2.841	11.437	-	11.437	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.978	-	4.978	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	6.655	-	6.655	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.969	2.841	23.070	0.000	23.070	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C04000 / C-40					Modification Number / Title: 1119 / CNS/ATM Compliance			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-40				Modification Type: Capability Improvement				Related RDT&E PEs: 0401314F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: CNS/ATM</i>													
A Kits													
Recurring													
CNS/ATM:INSTALL KITS Group A (Active)	- / -	- / -	- / -	4 / 3.276	- / -	4 / 3.276	- / -	- / -	- / -	- / -	- / -	- / -	
CNS/ATM:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	3 / 2.444	- / -	3 / 2.444	- / -	- / -	- / -	- / -	- / -	- / -	
CNS/ATM:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	4 / 3.276	- / -	4 / 3.276	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 8.996	- / -	- / 8.996	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
CNS/ATM:EQUIPMENT Group B (Active)	- / -	- / -	- / -	4 / 1.691	- / -	4 / 1.691	- / -	- / -	- / -	- / -	- / -	- / -	
CNS/ATM:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	3 / 1.268	- / -	3 / 1.268	- / -	- / -	- / -	- / -	- / -	- / -	
CNS/ATM:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	4 / 1.691	- / -	4 / 1.691	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 4.650	- / -	- / 4.650	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: CNS/ATM</i>	- / -	- / -	- / -	- / 13.646	- / -	- / 13.646	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 13.646	- / -	- / 13.646	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / 2.800	- / 4.745	- / -	- / 4.745	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / -	- / -	- / -	- / 0.007	- / -	- / 0.007	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / 0.969	- / 0.041	- / 0.030	- / -	- / 0.030	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / 0.969	- / 2.841	- / 4.782	- / -	- / 4.782	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1: CNS/ATM</i>	- / -	- / -	- / -	4 / 4.642	- / -	4 / 4.642	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	4 / 4.642	- / -	4 / 4.642	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	0.969	2.841	23.070	0.000	23.070	-	-	-	-	-	-	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C04000 / C-40	Modification Number / Title: 1119 / CNS/ATM Compliance
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: CNS/ATM

Manufacturer Information

Manufacturer Name: Boeing Manufacturer Location: San Antonio, TX

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 3

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Nov 2017				
Delivery Dates			Feb 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	4 / 4.642	- / -	4 / 4.642	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	4 / 4.642	- / -	4 / 4.642	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	0	11
Out	0	-	-	-	-	-	-	-	-	-	-	1	2	1	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	0	11

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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, 0401897F, 0404011F	Other Related Program Elements: 0207224F, 0401115F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	867.672	223.258	146.168	66.310	0.000	66.310	71.353	42.354	84.377	207.250	2,233.218	3,941.960
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	867.672	223.258	146.168	66.310	0.000	66.310	71.353	42.354	84.377	207.250	2,233.218	3,941.960
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	867.672	223.258	146.168	66.310	0.000	66.310	71.353	42.354	84.377	207.250	2,233.218	3,941.960

(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 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 FY18 PB are the Systems/Structure (Center Wing Replacement) mod, the MODE V IFF mod, the C-130 Auxiliary Hydraulic Pump mod, the C-130H Avionics Modernization Program (AMP) Increment 1 mod, MC-130H Flight Safety Compliance, ANG C-130H simulator, and low cost/safety/misc sims mods.

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 with resolutions that may include life of type buys or bridge buys.

FY16 funding totals include \$1.41M for Overseas Contingency Operations.

The FY 2018 funding request was reduced by \$9.763M to account for the availability of prior year execution balances.

Funding for this exhibit is contained in PEs 0401115F, 0401897F, and 0404011F.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	170.951	30.754	53.147	0.000	53.147	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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, 0401897F, 0404011F	Other Related Program Elements: 0207224F, 0401115F
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
	Total Obligation Authority	51.434	113.064	9.425	-	9.425	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.873	2.350	3.738	-	3.738	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	223.258	146.168	66.310	0.000	66.310	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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, 0401897F, 0404011F **Other Related Program Elements:** 0207224F, 0401115F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	3773 / C-130 8-Bladed Propeller Upgrade (Capability Improvement)				- / 56.000	- / 10.000	- / -	- / -	- / -	- / -
P-40a***	8221 / C-130 ALR-69A Radar Warning Receiver (RWR) (Capability Improvement)				- / -	- / -	- / 11.000	- / -	- / -	- / -
P-40a***	8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) (Service Life Extension)				- / 658.410	- / 3.100	- / 5.140	- / 8.160	- / -	- / 8.160
P-40a***	9139 / MOD V IFF (Capability Improvement)				- / 39.233	- / -	- / -	- / 1.550	- / -	- / 1.550
P-40a***	9141 / C-130 CRASHWORTHY LOADMASTER SEAT (No text provided.)				- / 1.112	- / 0.756	- / -	- / -	- / -	- / -
P-40a***	9149 / C-130 Aux Hyd Pump (Capability Improvement)				- / 13.548	- / 1.338	- / 0.328	- / 0.522	- / -	- / 0.522
P-40a***	92308 / T-56 3.5 Engine Mod (Capability Improvement)				- / 38.300	- / 33.200	- / -	- / -	- / -	- / -
P-40a***	92309 / Onboard Fire Incident Response Equipment (Capability Improvement)				- / 47.406	- / 82.594	- / -	- / -	- / -	- / -
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	- / 126.000	- / -	- / -	- / -
P-40a***	92312 / In-Flight Propeller Balancing System (IPBS) (Reliability & Maintainability)				- / -	- / 1.500	- / -	- / -	- / -	- / -
P-40a***	92315 / C-130H Simulator (Other)				- / -	- / -	- / -	- / 25.000	- / -	- / 25.000
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)				- / 2.832	- / 1.900	- / 0.500	- / 1.499	- / -	- / 1.499
P-40a***	99999M / MISC SIMULATOR UPDATES (Capability Improvement)				- / 0.703	- / 1.200	- / 0.100	- / 0.606	- / -	- / 0.606
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)				- / 0.001	- / 1.222	- / 1.101	- / 1.024	- / -	- / 1.024
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 10.127	- / 1.538	- / 1.999	- / 1.449	- / -	- / 1.449
P-3a	92302 / C-130H Avionics Modernization Program (AMP) Increment 1 (Capability Improvement)				- / 0.000	- / 70.000	- / 0.000	- / 15.500	- / 0.000	- / 15.500
P-3a	92316 / AFSOC C-130 Mods (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 11.000	- / 0.000	- / 11.000
P-40	Total Gross/Weapon System Cost				- / 867.672	- / 223.258	- / 146.168	- / 66.310	- / 0.000	- / 66.310

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	3773 / C-130 8-Bladed Propeller Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8221 / C-130 ALR-69A Radar Warning Receiver (RWR) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8578 / C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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, 0401897F, 0404011F **Other Related Program Elements:** 0207224F, 0401115F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	9139 / MOD V IFF (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9141 / C-130 CRASHWORTHY LOADMASTER SEAT (No text provided.)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9149 / C-130 Aux Hyd Pump (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	92308 / T-56 3.5 Engine Mod (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	92309 / Onboard Fire Incident Response Equipment (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	92310 / HC-130P/N Variable Speed Drogue (VSD) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	92311 / Electronic Propeller Control System (EPCS) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	92312 / In-Flight Propeller Balancing System (IPBS) (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	92315 / C-130H Simulator (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Safety)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999M / MISC SIMULATOR UPDATES (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999S / SERVICE BULLETINS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	92302 / C-130H Avionics Modernization Program (AMP) Increment 1 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	92316 / AFSOC C-130 Mods (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 71.353	- / 42.354	- / 84.377	- / 207.250	- / 2,233.218	- / 3,941.960

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 92302 / C-130H Avionics Modernization Program (AMP) Increment 1

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	70.000	0.000	15.500	0.000	15.500	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	70.000	0.000	15.500	0.000	15.500	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	70.000	0.000	15.500	0.000	15.500	-	-	-	-	-	-

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

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

Description:

In the FY16 Appropriations Bill, Congress added \$70.0M APAF (FY16) to comply with Section 134 of the FY15 National Defense Authorization Act (NDAA).

The C-130H Avionics Modernization Program (AMP) Increment 1 program will modify a minimum of 176 C-130H (170 C-130H & 6 LC-130H) aircraft with Automatic Dependent Surveillance-Broadcast (ADS-B) Out, 8.33 kHz radios, updated cockpit voice recorder/digital flight data recorder (CVR/DFDR), and Enhanced Mode S. C-130H AMP Increment 1 also provides Type 1 training and modifies the C-130H aircrew and maintenance training systems and courseware including MODE 5 Identification Friend or Foe (IFF). Identified obsolescence and Diminishing Manufacturing Source (DMS) issues will be resolved with solutions that may include life of type buys or bridge buys, DMS efforts will include removal of end-of-life software/hardware within simulators systems and move to a modular, common open system architecture that is sustainable and cyber-resilient. This modification will also implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative.

The 176 C-130Hs are comprised of 131 Air National Guard and 45 Air Force Reserve aircraft. There is the potential of an additional 4 production kits (not included in the above funding line) for National Science Foundation aircraft that will require this airspace compliance modification.

C-130H AMP Increment 1 acquisition strategy addresses the Federal Aviation Administration/International Civil Aviation Organization (FAA/ICAO) Communication/ Navigation/Surveillance & Air Traffic Management (CNS/ATM) mandated upgrades in the most efficient manner that will meet FAA's January 2020 and ICAO's June 2020 Airspace Compliance mandates. Current efforts are primarily involved with pre-contract work and source selection in preparation for the Engineering and Manufacturing Development (EMD) phase. The majority of the RDT&E effort is for ADS-B Out. Current schedule reflects the ADS-B Out EMD contract to be awarded in 3rd quarter FY17 following a competitive source selection.

The Engineering and Manufacturing Development (EMD) phase will have up to 6 prototype aircraft required for accomplishment of the ADS-B Out effort. The prototype aircraft will be representative of variations in the C-130H mission designs. The remaining aircraft will be modified in the production phase.

Note, the Traffic Alert and Collision Avoidance System (TCAS II) is listed in the C-130H AMP Capability Development Document (CDD) as a requirement since it's required for flight operations in airspace controlled by the Federal Aviation Administration (FAA), and airspace controlled by foreign countries; however, the legacy C-130H fleet already has TCAS II 7.0 installed and will be maintained through the AMP Increment 1 upgrade. Also, MODE 5 IFF is listed in the CDD as a requirement but is funded in mod number 9139.

Milestone/Development Status

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 92302 / C-130H Avionics Modernization Program (AMP) Increment 1

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**
Milestone B approved Q2 FY17. Preliminary Design Review is scheduled for Q4 FY17. Critical Design Review scheduled for Q4 FY17.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	70.000	0.000	10.993	0.000	10.993	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	3.380	-	3.380	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.127	-	1.127	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	70.000	0.000	15.500	0.000	15.500	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C13000 / C-130				Modification Number / Title: 92302 / C-130H Avionics Modernization Program (AMP) Increment 1					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-130H				Modification Type: Capability Improvement				Related RDT&E PEs: 0401115F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0401115F	- / 0.000	- / 33.962	- / 8.421	4 / 1.965	- / -	4 / 1.965	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
Modification Item 1 of 1: C-130H													
A Kits													
Recurring													
C-130H:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	81 / 0.845	- / -	81 / 0.845	- / -	- / -	- / -	- / -	- / -	- / -	
C-130H:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	27 / 0.282	- / -	27 / 0.282	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / -	- / -	- / -	- / 1.127	- / -	- / 1.127	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
C-130H:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	81 / 2.535	- / -	81 / 2.535	- / -	- / -	- / -	- / -	- / -	- / -	
C-130H:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	27 / 0.845	- / -	27 / 0.845	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / -	- / -	- / -	- / 3.380	- / -	- / 3.380	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: C-130H	- / -	- / -	- / -	- / 4.507	- / -	- / 4.507	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Procurement, All Modification Items	- / -	- / -	- / -	- / 4.507	- / -	- / 4.507	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
GROUP B: TOTAL NONRECURRING	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / 142.700	- / -	- / 13.043	- / -	- / 13.043	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / -	- / 10.100	- / -	- / 10.500	- / -	- / 10.500	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / -	- / -	- / -	- / 10.500	- / -	- / 10.500	- / -	- / -	- / -	- / -	- / -	- / -	
GFP	- / -	- / 127.200	- / -	- / 15.150	- / -	- / 15.150	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Labor	- / -	- / -	- / -	- / 10.100	- / -	- / 10.100	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Material	- / -	- / -	- / -	- / 10.050	- / -	- / 10.050	- / -	- / -	- / -	- / -	- / -	- / -	
Type 1 Training	- / -	- / -	- / -	- / 10.100	- / -	- / 10.100	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / -	- / -	- / -	- / 11.500	- / -	- / 11.500	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 10.050	- / -	- / 10.050	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Support	- / 0.000	- / 170.000	- / 0.000	- / 110.993	- / 0.000	- / 110.993	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 92302 / C-130H Avionics Modernization Program (AMP) Increment 1

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: C-130H	Modification Type: Capability Improvement	Related RDT&E PEs: 0401115F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total												
Total Cost (Procurement + Support + Installation)	0.000	70.000	0.000	15.500	0.000	15.500	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 92302 / C-130H Avionics Modernization Program (AMP) Increment 1

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: C-130H

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 9

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Jul 2018				
Delivery Dates			Apr 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	74	74	-	-	-	-	-	-	-	-	-	-	-	0	172
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	74	74	-	-	-	-	-	-	-	-	-	-	-	0	172

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 92316 / AFSOC C-130 Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	11.000	0.000	11.000	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	11.000	0.000	11.000	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	11.000	0.000	11.000	-	-	-	-	-	-

(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 92316, AFSOC C-130 Mods, is a new start.

AFSOC C-130 Mods will address Federal Aviation Administration/International Civil Aviation Organization (FAA/ICAO) Communication/ Navigation/Surveillance and Air Traffic Management (CNS/ATM) mandated upgrades in the most efficient manner that will meet FAA's January 2020 and ICAO's June 2020 Airspace Compliance mandates.

Current efforts are focused on modifying the AFSOC C-130 fleet with Automatic Dependent Surveillance-Broadcast (ADS-B) Out, updated digital flight data recorders (DFDR) and select capability improvements.

Milestone/Development Status

N/A

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	11.000	-	11.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	11.000	0.000	11.000	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C13000 / C-130				Modification Number / Title: 92316 / AFSOC C-130 Mods					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-130				Modification Type: Capability Improvement				Related RDT&E PEs: 0401115F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> MC-130													
A Kits													
Recurring													
MC-130:INSTALL KITS Group A (Active)	- / -	- / -	- / -	15 / 1.858	- / -	15 / 1.858	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 1.858	- / -	- / 1.858	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
MC-130:EQUIPMENT Group B (Active)	- / -	- / -	- / -	15 / 2.476	- / -	15 / 2.476	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 2.476	- / -	- / 2.476	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: MC-130</i>	- / -	- / -	- / -	- / 4.334	- / -	- / 4.334	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 4.334	- / -	- / 4.334	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
PMA - Contractor Services	- / -	- / -	- / -	- / 0.660	- / -	- / 0.660	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.206	- / -	- / 0.206	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / -	- / -	- / 3.000	- / -	- / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / -	- / -	- / -	- / 1.500	- / -	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	
Type 1 Training	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Labor	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / -	- / -	- / -	- / 0.800	- / -	- / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	- / -	- / -	- / -	0 / 0.400	- / -	0 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / -	0 / 6.666	- / -	0 / 6.666	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1:</i> MC-130													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	15 / 0.000	- / -	15 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	11.000	0.000	11.000	-	-	-	-	-	-	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13000 / C-130	Modification Number / Title: 92316 / AFSOC C-130 Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: MC-130

Manufacturer Information

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

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Apr 2018				
Delivery Dates			Apr 2019				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	15 / 0.000	- / -	15 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	15 / 0.000	- / -	15 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	13	-	-	-	-	-	-	-	0	15

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Line Item MDAP/MAIS Code: 220

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	128.521	29.713	89.424	171.230	8.400	179.630	131.049	145.170	109.301	165.385	818.296	1,796.489
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	128.521	29.713	89.424	171.230	8.400	179.630	131.049	145.170	109.301	165.385	818.296	1,796.489
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	128.521	29.713	89.424	171.230	8.400	179.630	131.049	145.170	109.301	165.385	818.296	1,796.489

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

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

Description:

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 May 2017, there are 194 USAF C-130J Variants: C-130J - 102, C-130J (short) - 10, WC-130J - 10, EC-130J - 7, HC-130J - 20, MC-130J - 34, AC-130J - 11. The designed service life is 35 years and the average service life remaining is 27.6 years.

Funding for this exhibit is contained in PE 0401132F. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

In FY18, the center wing box replacement program continues with the installation of two enhanced service life (ESL) center wing kits and the procurement of two ESL kits. Since Nov 2009, all production C-130Js have been delivered with the ESL center wing.

In order to better manage the fleet and 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 into one aircraft modification program. This way the aircraft and trainers will only have to be modified one time. The Block 8.1 mod includes Block 7.0 content.

The international C-130J Block 8.1 DT&E is complete with OT&E scheduled for 2018. The Block 8.1 modification contract will be awarded in 2017.

Block 8.1 includes ADS-B Out and Mode V IFF as well as 34 additional capabilities. In order to meet the Federal Aviation Administration (FAA) 2020 mandate the USAF will install the Block 8.1 ADS-B Out/Mode V IFF solution on all C-130J variants not scheduled to receive Block 8.1 by January 2020. All C-130Js will still require Block 8.1

NOTE: USMC KC-130Js and USCG HC-130Js are following USAF's lead and will also field combined Block 7/8.1 aircraft.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force							Date: May 2017			
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				
Line Item MDAP/MAIS Code: 220										

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	29.713	89.424	171.230	8.400	179.630	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	29.713	89.424	171.230	8.400	179.630	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Line Item MDAP/MAIS Code: 220

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	_2612 / Avionics System and Structural Modifications (Capability Improvement)				- / 23.702	- / 2.554	- / 3.200	- / 3.200	- / -	- / 3.200
P-40a***	_5296 / Wind Gust Brake (Reliability & Maintainability)				- / 43.102	- / 0.114	- / 1.600	- / 1.500	- / -	- / 1.500
P-40a***	99999X / Low Cost Modifications (Safety)				- / 9.004	- / 0.103	- / 0.100	- / 0.507	- / -	- / 0.507
P-3a	5222 / BLOCK 8.1 (Capability Improvement)				- / -	- / 26.445	- / 71.729	- / 141.781	- / 0.000	- / 141.781
P-3a	8646 / C-130J Center Wing Replacement (Service Life Extension)				- / 52.713	- / 0.497	- / 12.795	- / 24.242	- / 8.400	- / 32.642
P-40	Total Gross/Weapon System Cost				- / 128.521	- / 29.713	- / 89.424	- / 171.230	- / 8.400	- / 179.630

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	_2612 / Avionics System and Structural Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	_5296 / Wind Gust Brake (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Safety)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	5222 / BLOCK 8.1 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8646 / C-130J Center Wing Replacement (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 131.049	- / 145.170	- / 109.301	- / 165.385	- / 818.296	- / 1,796.489

*** 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: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 5222 / BLOCK 8.1
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	26.445	71.729	141.781	0.000	141.781	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	26.445	71.729	141.781	0.000	141.781	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	26.445	71.729	141.781	0.000	141.781	-	-	-	-	-	-

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

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

Description:

The C-130J combined 7.0 and 8.1 Block Upgrades (BU) modification program funds the procurement and installation of Communication, Navigation and Surveillance Air Traffic Management (CNS/ATM) navigation safety and other aircraft hardware and software improvements on USAF C-130J aircraft and associated training systems. The combined BU 7.0 and 8.1 (now called just Block 8.1) is being implemented to maintain access to global airspace, enhance aircraft navigational accuracy and aircrew situational awareness. It increases overall C-130J operational utility/effectiveness and reduces C-130J systems/parts obsolescence.

Block 8.1 provided 38 capabilities for the C-130J including: a new Flight Management System, civil GPS, Link-16, digital maps, Mission Computer - Operational Flight Program (MC-OFP), a modified control yoke, 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. The HC/MC/AC Block 8.1 retrofit program begins in FY19 under the HC/MC Recap Mod program. HQ AMC procures the common Group B Kits only for the EC/HC/MC/AC Block 8.1 program.

This funding request will support DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.

Support equipment cost element contains support equipment and initial spares.

FY16 funds resolution to DMS issue.

The ADS-B Out and Mode V IFF capability is being accelerated ahead of the complete Block 8.1 mod in order to meet Jan 2020 mandates and are included in this document.

FY18 procures Retrofit kits.

Milestone/Development Status

Block 8.1 development is complete. BU 8.1 operational testing is scheduled will occur in FY18.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	26.445	71.729	141.781	-	141.781	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force							Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: C1300J / C-130J Mods				Modification Number / Title: 5222 / BLOCK 8.1			
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:					
Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	26.445	71.729	141.781	0.000	141.781	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C1300J / C-130J Mods				Modification Number / Title: 5222 / BLOCK 8.1					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0401132F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 9.294	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Procurement													
Modification Item 1 of 2: ADS-B Out													
A Kits													
Recurring													
ADS-B Out:INSTALL KITS Group A (Active)	- / -	- / -	215 / 59.555	26 / 7.358	- / -	26 / 7.358	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / -	- / -	- / 59.555	- / 7.358	- / -	- / 7.358	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: ADS-B Out	- / -	- / -	- / 59.555	- / 7.358	- / -	- / 7.358	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 2 of 2: Block 81 LM Kit													
A Kits													
Recurring													
Block 81 LM Kit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	15 / 21.885	- / -	15 / 21.885	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / -	- / -	- / -	- / 21.885	- / -	- / 21.885	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
Block 81 LM Kit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	15 / 25.500	- / -	15 / 25.500	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / -	- / -	- / -	- / 25.500	- / -	- / 25.500	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Block 81 LM Kit	- / -	- / -	- / -	- / 47.385	- / -	- / 47.385	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Procurement, All Modification Items	- / -	- / -	- / 59.555	- / 54.743	- / -	- / 54.743	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / 23.700	- / -	- / 16.894	- / -	- / 16.894	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / -	- / -	- / 0.146	- / 4.385	- / -	- / 4.385	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / -	- / -	- / 6.150	- / 5.540	- / -	- / 5.540	- / -	- / -	- / -	- / -	- / -	- / -	
GFP	- / -	- / -	- / -	- / 3.785	- / -	- / 3.785	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	- / -	0 / 0.982	- / -	0 / 20.542	- / -	0 / 20.542	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / -	- / 1.162	- / 3.930	- / 20.248	- / -	- / 20.248	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Labor	- / -	- / 0.161	- / 0.755	- / 9.255	- / -	- / 9.255	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / -	- / -	- / 0.300	- / -	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / 0.440	- / 1.193	- / 4.166	- / -	- / 4.166	- / -	- / -	- / -	- / -	- / -	- / -	
Type 1 Training	- / -	- / -	- / -	- / 1.923	- / -	- / 1.923	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Support	- / -	0 / 26.445	- / 12.174	0 / 87.038	- / -	0 / 87.038	- / -	- / -	- / -	- / -	- / -	- / -	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 5222 / BLOCK 8.1

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: C-130J	Modification Type: Capability Improvement	Related RDT&E PEs: 0401132F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	26.445	71.729	141.781	0.000	141.781	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 5222 / BLOCK 8.1
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 2: ADS-B Out

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Marietta GA
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Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 18
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Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Jun 2017	Jun 2018				
Delivery Dates		Dec 2018	Dec 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	53	54	54	54	26	-	-	-	-	-	-	-	-	-	-	-	0	241
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	48	53	54	54	32	-	-	-	-	-	-	-	-	-	-	-	0	241

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Exhibit P-3a, Individual Modification: FY 2018 Air Force																							Date: May 2017								
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5											P-1 Line Item Number / Title: C1300J / C-130J Mods											Modification Number / Title: 5222 / BLOCK 8.1									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 2 of 2: Block 81 LM Kit																															
Manufacturer Information																															
Manufacturer Name: Lockheed Martin														Manufacturer Location: Marietta GA/Greenville SC																	
Administrative Leadtime (in Months): 0														Production Leadtime (in Months): 24																	
Dates		FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022					
Contract Dates										Oct 2017																					
Delivery Dates										Oct 2019																					
Installation Information																															
Method of Implementation: Depot																															
Installation Schedule																															
	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	5	5	5	5	6	5	5	6	5	5	85	142
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	2	3	5	5	5	5	6	5	5	101	142

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 8646 / C-130J Center Wing Replacement

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	52.713	0.497	12.795	24.242	8.400	32.642	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	52.713	0.497	12.795	24.242	8.400	32.642	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	52.713	0.497	12.795	24.242	8.400	32.642	-	-	-	-	-	-

(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.

Milestone/Development Status

N/A

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.497	12.795	24.242	8.400	32.642	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.497	12.795	24.242	8.400	32.642	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C1300J / C-130J Mods					Modification Number / Title: 8646 / C-130J Center Wing Replacement			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-130J				Modification Type: Service Life Extension				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: C-130J CWR Contract 1</i>													
A Kits													
Recurring													
C-130J CWR Contract 1:INSTALL KITS Group A (Active)	9 / 32.294	- / -	2 / 9.594	4 / 17.077	1 / 5.822	5 / 22.899	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 32.294	- / -	- / 9.594	- / 17.077	- / 5.822	- / 22.899	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: C-130J CWR Contract 1</i>	- / 32.294	- / -	- / 9.594	- / 17.077	- / 5.822	- / 22.899	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / 32.294	- / -	- / 9.594	- / 17.077	- / 5.822	- / 22.899	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 8.240	- / -	- / -	- / -	- / 10.000	- / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / 0.152	- / -	- / -	- / 1.245	- / -	- / 1.245	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / 1.044	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
OCO INSTALLATIONS	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / 1.346	- / 0.485	- / 0.450	- / 0.498	- / -	- / 0.498	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / 0.060	- / 0.012	- / 0.015	- / 0.012	- / -	- / 0.012	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 10.842	- / 0.497	- / 0.465	- / 1.755	- / 10.000	- / 11.755	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1: C-130J CWR Contract 1</i>													
	0 / 9.577	- / -	4 / 2.736	2 / 5.410	1 / 2.578	3 / 7.988	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / 9.577	- / -	4 / 2.736	2 / 5.410	1 / 2.578	3 / 7.988	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	52.713	0.497	12.795	24.242	8.400	32.642	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C1300J / C-130J Mods	Modification Number / Title: 8646 / C-130J Center Wing Replacement

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Jan 2017	Jan 2018				
Delivery Dates		Apr 2019	Apr 2020				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 9.577	- / -	4 / 2.736	2 / 5.410	0 / 0.000	2 / 5.410	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	1 / 2.578	1 / 2.578	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 9.577	- / -	4 / 2.736	2 / 5.410	1 / 2.578	3 / 7.988	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	5	21
Out	0	-	-	-	-	-	-	-	1	1	1	1	1	-	-	1	1	1	1	-	-	1	1	1	1	1	1	1	-	5	21

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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:** N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	121.913	48.868	64.161	69.428	0.000	69.428	87.804	102.479	105.264	109.104	234.693	943.714
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	121.913	48.868	64.161	69.428	0.000	69.428	87.804	102.479	105.264	109.104	234.693	943.714
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	121.913	48.868	64.161	69.428	0.000	69.428	87.804	102.479	105.264	109.104	234.693	943.714

(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/KC-135 is a four engine aircraft used for long range cargo and passenger airlift and to support theater commanders. The four engine C/KC-135 provides air refueling through either the refueling boom or drogue. As a cargo aircraft, the C/KC-135 can carry six standard 463-L pallets. There are 400 aircraft (396 KCs, 4 special purpose) in the C/KC-135 inventory. The average age is 55 years, with 22 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.

In CY Rudder Position Indicator (RPI) was a new start

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	27.726	37.754	38.704	-	38.704	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.908	17.910	20.797	-	20.797	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.234	8.497	9.927	-	9.927	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	48.868	64.161	69.428	-	69.428	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	9818 / VOR/ILS ANTENNAE (Capability Improvement)				- / 8.478	- / 0.752	- / 0.162	- / -	- / -	- / -
P-40a***	9824 / ADS-B (Capability Improvement)				- / -	- / -	- / -	- / 5.000	- / -	- / 5.000
P-40a***	9826 / Rudder Position Indicator (RPI) (Capability Improvement)				- / -	- / -	- / 4.903	- / 5.978	- / -	- / 5.978
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Capability Improvement)				- / 0.000	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 8.092	- / 1.000	- / 1.901	- / 1.111	- / -	- / 1.111
P-3a	8653 / BLOCK 45 (Capability Improvement)				- / 105.343	- / 47.091	- / 57.170	- / 57.314	- / 0.000	- / 57.314
P-40	Total Gross/Weapon System Cost				- / 121.913	- / 48.868	- / 64.161	- / 69.428	- / 0.000	- / 69.428

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	9818 / VOR/ILS ANTENNAE (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9824 / ADS-B (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9826 / Rudder Position Indicator (RPI) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999A / LOW COST SAFETY MODIFICATIONS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8653 / BLOCK 45 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 87.804	- / 102.479	- / 105.264	- / 109.104	- / 234.693	- / 943.714

*** 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: FY 2018 Air Force	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 8653 / BLOCK 45
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	105.343	47.091	57.170	57.314	0.000	57.314	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	105.343	47.091	57.170	57.314	0.000	57.314	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	105.343	47.091	57.170	57.314	0.000	57.314	-	-	-	-	-	-

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

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

Description:

The Block 45 program places legacy parts that are difficult to maintain, driving high sustainment costs, failing at high rates, and are no longer procurable. The modification includes a new Digital Flight Director (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 C/KC-135 Communications, Navigation, and Surveillance / Air Traffic Management (CNS/ATM), dated 17 May 12. Program of record: 400 C/KC-135 aircraft, 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. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Milestone/Development Status

Developmental Test & Evaluation completed March 2013. Milestone C approval received 25 July 2013.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	26.494	31.765	29.742	-	29.742	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.496	17.199	18.466	-	18.466	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.101	8.206	9.106	-	9.106	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	47.091	57.170	57.314	0.000	57.314	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: C13500 / C-135					Modification Number / Title: 8653 / BLOCK 45			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: KC-135				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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)	29 / 2.832	12 / 0.873	11 / 0.801	12 / 0.891	- / -	12 / 0.891	- / -	- / -	- / -	- / -	- / -	- / -	
Block 45:INSTALL KITS Group A (Guard)	25 / 2.730	15 / 1.091	13 / 0.946	13 / 0.965	- / -	13 / 0.965	- / -	- / -	- / -	- / -	- / -	- / -	
Block 45:INSTALL KITS Group A (Reserve)	10 / 1.055	6 / 0.436	6 / 0.437	8 / 0.594	- / -	8 / 0.594	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 6.617	- / 2.400	- / 2.184	- / 2.450	- / -	- / 2.450	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
Block 45:EQUIPMENT Group B (Active)	29 / 17.859	12 / 8.313	11 / 7.898	12 / 8.761	- / -	12 / 8.761	- / -	- / -	- / -	- / -	- / -	- / -	
Block 45:EQUIPMENT Group B (Guard)	25 / 15.981	15 / 10.391	13 / 9.334	13 / 9.491	- / -	13 / 9.491	- / -	- / -	- / -	- / -	- / -	- / -	
Block 45:EQUIPMENT Group B (Reserve)	10 / 6.482	6 / 4.157	6 / 4.309	8 / 5.841	- / -	8 / 5.841	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 40.322	- / 22.861	- / 21.541	- / 24.093	- / -	- / 24.093	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Block 45</i>	- / 46.939	- / 25.261	- / 23.725	- / 26.543	- / -	- / 26.543	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / 46.939	- / 25.261	- / 23.725	- / 26.543	- / -	- / 26.543	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
Change Orders	- / 8.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / 1.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	9 / 18.344	1 / 3.038	5 / 10.036	3 / 5.175	- / -	3 / 5.175	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / 0.336	- / 0.132	- / 0.136	- / 0.140	- / -	- / 0.140	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / 14.900	- / 11.536	- / 7.657	- / 8.051	- / -	- / 8.051	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / 1.828	- / 0.568	- / 0.408	- / 0.420	- / -	- / 0.420	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / 0.125	- / 0.150	- / 0.072	- / 0.074	- / -	- / 0.074	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	9 / 44.830	1 / 15.424	5 / 18.309	3 / 13.860	- / -	3 / 13.860	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1: Block 45</i>	28 / 13.574	17 / 6.406	35 / 15.136	38 / 16.911	- / -	38 / 16.911	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	28 / 13.574	17 / 6.406	35 / 15.136	38 / 16.911	- / -	38 / 16.911	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	105.343	47.091	57.170	57.314	0.000	57.314	-	-	-	-	-	-	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 8653 / BLOCK 45
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: Block 45

Manufacturer Information

Manufacturer Name: Rockwell Collins Manufacturer Location: Cedar Rapids, IA

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 8

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 8.434	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15
Out	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	17 / 6.406	19 / 8.217	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C13500 / C-135	Modification Number / Title: 8653 / BLOCK 45
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: Block 45

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 6.919	17 / 7.565	- / -	17 / 7.565	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	21 / 9.346	- / -	21 / 9.346	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	13 / 5.140	17 / 6.406	35 / 15.136	38 / 16.911	- / -	38 / 16.911	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	13	4	4	4	5	9	8	9	9	9	10	9	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	136	383
Out	13	4	4	4	5	9	8	9	9	9	10	9	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	136	383

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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: C135BO / OC-135B
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305145F	Other Related Program Elements: 0305145F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	23.091	0.000	23.091	5.961	5.162	5.257	5.363	-	44.834
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	23.091	0.000	23.091	5.961	5.162	5.257	5.363	-	44.834
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	23.091	0.000	23.091	5.961	5.162	5.257	5.363	-	44.834

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

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

Description:

Funding for this exhibit contained in PE 0305145F

The OC-135B aircraft supports the implementation of the United States Government (USG) Open Skies Treaty. Mission equipment on the OC-135B includes wet film optical framing and panoramic cameras. Open Skies Sensors program addresses the requirements in the Presidential Policy Directive-15 (PPD-15), which states, "The United States shall begin budgeting no later than Fiscal Year 2014 to upgrade the sensors on the current aircraft by replacing film-based cameras with available electro-optical sensors.(U)" Additionally, current cameras are nearly obsolete, frequently unreliable, hard and increasingly expensive to maintain, and repair parts must be individually manufactured. In addition, the web film manufacturers are discontinuing production of the film stock.

This camera replacement program will replace the wet film cameras with modern, digital cameras. This program will result in modern, digital cameras with higher reliability, maintainability and cost effectiveness. The customer of the imagery will be able to more readily use the imagery products and the equipment service life will be extended significantly.

OC-135B fleet consists of two aircraft. Both aircraft will be modified. One aircraft will be modified during development using RDT&E funds. Each aircraft will receive one A-kit and two B-kits to comply with treaty requirements.

Automatic Dependent Surveillance-Broadcast (ADS-B) out is planned to replace Air Traffic Control (ATC) radar and is mandated to be installed on aircraft using US airspace by 2020.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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:
C135BO / OC-135B

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0305145F **Other Related Program Elements:** 0305145F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	1901 / ADS-B (Other)				- / -	- / -	- / -	- / 2.991	- / -	- / 2.991
P-3a	1900 / Digital Visual Imaging System (DVIS) (Reliability & Maintainability)				- / 0.000	- / 0.000	- / 0.000	- / 20.100	- / 0.000	- / 20.100
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 0.000	- / 23.091	- / 0.000	- / 23.091

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	1901 / ADS-B (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1900 / Digital Visual Imaging System (DVIS) (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 5.961	- / 5.162	- / 5.257	- / 5.363	- / -	- / 44.834

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C135BO / OC-135B	Modification Number / Title: 1900 / Digital Visual Imaging System (DVIS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	20.100	0.000	20.100	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	20.100	0.000	20.100	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	20.100	0.000	20.100	-	-	-	-	-	-
<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:

FY18 includes procurement new start efforts.

The OC-135B aircraft supports the implementation of the United States Government (USG) Open Skies Treaty. Mission equipment on the OC-135B includes wet film optical framing and panoramic cameras. Open Skies Sensors program addresses the requirements in the Presidential Policy Directive-15 (PPD-15), which states, "The United States shall begin budgeting no later than Fiscal Year 2014 to upgrade the sensors on the current aircraft by replacing film-based cameras with available electro-optical sensors.(U)"

This camera replacement program will replace the wet film cameras with modern, digital cameras.

OC-135B fleet consists of two aircraft. Both aircraft will be modified. One aircraft will be modified during development using RDT&E funds. Each aircraft will receive one A-kit and two B-kits to comply with treaty requirements.

This funding request will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.

Milestone/Development Status

Milestone B complete Jan 16, Contract award Feb 16

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: C135BO / OC-135B				Modification Number / Title: 1900 / Digital Visual Imaging System (DVIS)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: OC-135B			Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0305145F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 #												
0305145F	- / 17.252	1 / 9.116	- / 4.844	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 1: DVIS												
A Kits												
Recurring												
DVIS:INSTALL KITS Group A (Active)	- / -	- / -	- / -	1 / 1.000	- / -	1 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 1.000	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
DVIS:EQUIPMENT Group B (Active)	- / -	- / -	- / -	1 / 8.400	- / -	1 / 8.400	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 8.400	- / -	- / 8.400	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: DVIS</i>	- / -	- / -	- / -	- / 9.400	- / -	- / 9.400	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 9.400	- / -	- / 9.400	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
Data	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP	- / -	- / -	- / -	- / 6.000	- / -	- / 6.000	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Contractor Services	- / -	- / -	- / -	- / 1.000	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.600	- / -	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / -
Type 1 Training	- / -	- / -	- / -	- / 0.100	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 8.200	- / -	- / 8.200	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 1: DVIS												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	1 / 2.500	- / -	1 / 2.500	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	20.100	0.000	20.100	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: C135BO / OC-135B	Modification Number / Title: 1900 / Digital Visual Imaging System (DVIS)

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

Manufacturer Information

Manufacturer Name: KIHOMAC	Manufacturer Location: Waco, TX. L3 Facility
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 2

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Jun 2018				
Delivery Dates			Aug 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	1 / 2.500	- / -	1 / 2.500	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 2.500	- / -	1 / 2.500	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	81.990	212.657	166.541	56.720	223.261	159.295	160.109	160.308	161.028	0.000	1,158.648
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	81.990	212.657	166.541	56.720	223.261	159.295	160.109	160.308	161.028	0.000	1,158.648
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	81.990	212.657	166.541	56.720	223.261	159.295	160.109	160.308	161.028	0.000	1,158.648

(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 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 COMPASS CALL program of record inventory will include the following resources: fifteen (15) EC-130H total active inventory (TAI) -- ten (10) aircraft are primary mission aircraft inventory (PMAI), two (2) aircraft are Backup Aircraft Inventory (BAI), two (2) in attrition, and one (1) aircraft is a primary development/test aircraft inventory (PDAI), one(1) Weapon System Trainer (WST, a.k.a. flight deck simulator) and two (2)COMPASS CALL Mission Crew Simulators (CCMCS). FY 2018 funding will procure Group A and Group B kits as well as installation of such hardware during the aircraft inspection/modification cycle per the FY 2017 NDAA language. FY2018 funding will also procure emerging threat planning and production engineering to receive modern communications. 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 2018 will be used to support the COMPASS CALL mission in its theater of operations.

The Doctrine, Organization, Training, materiel, Leadership & Education, Personnel, Facilities (DOTmLPE) Change Request (DCR) was approved by the Vice Chief of Staff of the Air Force (VCSAF) on 23 March 2016 to re-host the Compass Call Prime Mission Equipment from an EC-130H to a commercial aircraft that is more operationally effective and survivable and meets the requirements of the combatant commands.

FY 2017 funding totals include \$29.8M for Overseas Contingency Operations.

In FY 2017 the COMPASS CALL re-host program was a new start.

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

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1001 / COMPASS CALL (Capability Improvement)				- / -	- / 58.694	- / 19.258	- / 8.000	- / 14.120	- / 22.120
P-3a	1003 / COMPASS CALL Baseline 3 (Capability Improvement)				- / -	- / 23.296	- / 193.399	- / 158.541	- / 42.600	- / 201.141
P-40	Total Gross/Weapon System Cost				- / -	- / 81.990	- / 212.657	- / 166.541	- / 56.720	- / 223.261

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1001 / COMPASS CALL (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1003 / COMPASS CALL Baseline 3 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 159.295	- / 160.109	- / 160.308	- / 161.028	- / 0.000	- / 1,158.648

*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: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	58.694	19.258	8.000	14.120	22.120	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	58.694	19.258	8.000	14.120	22.120	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	58.694	19.258	8.000	14.120	22.120	-	-	-	-	-	-
<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>)	-	10.128	-	-	-	-	-	-	-	-	-	-
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.

Four (4) Baseline 1 configured aircraft and seven (7) Mid-Baseline 2 aircraft are currently fielded (as of the third quarter of FY 2017), one (1) Mid-Baseline 2 test aircraft, and three (3) aircraft are in depot for inspection/modification receiving the Mid-Baseline 2 and avionics viability program (AVP, aka 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 inspection and modification cyclic schedule. Program of record at the beginning of FY 2018 will include the following resources: fifteen (15) EC-130H total active inventory (TAI) -- ten (10) aircraft are primary mission aircraft inventory (PMAI), two (2) aircraft are Backup Aircraft Inventory (BAI), two (2) aircraft are in attrition, and one (1) aircraft is a primary development/test aircraft inventory (PDAI); one (1) Weapon System Trainer (WST, a.k.a. flight deck simulator); and two (2) COMPASS CALL Mission Crew Simulators (CCMCS).

FY 2017 includes \$29.8M of Overseas Contingency operations (OCO) funding. \$1.2M is for adaptive Electronic Warfare (EW) algorithm QRC kit and transmit patch panel capability allowing for rapid integration of QRCs. This amount is included in the Other Government line. The remaining \$28.6M is included in the P-3A for Mod Number 1003 (COMPASS CALL Baseline 3).

The Other Government line in FY 2017 (\$16.382M) includes Automatic Data Surveillance Broadcast (ADS-B Out) and /Mode 5 Identify Friend or Foe, Adaptive EW and transmit patch panel/kits/installs. FY 2018 OCO funding supports the integration of flight deck avionics upgrades to meet certain mandates (Mode 5 required to continue operations in any airspace across the globe and ADS-B out is required to allow the aircraft to traverse congested airspace) for the EC-130H fleet. Updates include the integration of eleven (11) aircraft with Mode 5 and seven (7) AVP-aircraft with ADS-B Out.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Funding for this exhibit is contained in PE 0207253F.

Milestone/Development Status

The COMPASS CALL weapon system is continuously improved using a rapid development and acquisition process supporting a baseline upgrade strategy. User needs and technology opportunities are continuously reviewed and a new mission equipment baseline is defined approximately every 60 months. By the first quarter of FY 2018, ten (10) PMAI EC-130H COMPASS CALL aircraft and one PDAI aircraft will be in the Mid Baseline 2 configuration.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

Models of Systems Affected: EC-130H, NEC-130H, TC-130H **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0207253F

Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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)	- / -	2 / 15.224	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / 15.224	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
Baseline 2:EQUIPMENT Group B (Active)	- / -	2 / 25.076	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / 25.076	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Baseline 2</i>	- / -	- / 40.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 40.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / -	- / 0.000	- / 0.317	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
GROUP B: TOTAL NONRECURRING	- / -	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	- / 1.692	- / 2.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
OTHER GOVT	- / -	- / -	- / 16.382	- / 8.000	- / 14.120	- / 22.120	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / 3.192	- / 19.258	- / 8.000	- / 14.120	- / 22.120	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1: Baseline 2</i>												
<i>Subtotal: Installation</i>	- / -	2 / 15.202	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	58.694	19.258	8.000	14.120	22.120	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

Manufacturer Information

Manufacturer Name: L-3 Technologies	Manufacturer Location: Waco, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 9

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	2 / 15.202	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	2 / 15.202	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2
Out	0	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	23.296	193.399	158.541	42.600	201.141	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	23.296	193.399	158.541	42.600	201.141	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	23.296	193.399	158.541	42.600	201.141	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	50.172	10.228	0.000	10.228	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The 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 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 target-specific techniques/suite, selective capability against advanced commercial comms, digital voice recognition, digital mission crew interphone, reachback and improved external communications. 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 quick reaction capability (QRC) kits. Equipment includes aircraft and mission equipment retrofits based on the programmed depot maintenance (PDM) and modification cyclic schedule. Program of record at the beginning of FY 2018 will include the following resources: 15 EC-130H total active inventory (TAI) -- ten (10) aircraft are primary mission aircraft inventory (PMAI), two (2) aircraft are Backup Aircraft Inventory (BAI), two (2) in attrition, and one (1) aircraft is a 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 2018 funding will procure Group A and Group B kits as well as installation of such hardware during the aircraft inspection/modification cycle as per the FY 2017 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.

Due to rapid advances in electronic attack technology, 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.

The Doctrine, Organization, Training, materiel, Leadership & Education, Personnel, Facilities (DOTmLPE) Change Request (DCR) was approved by the Vice Chief of Staff of the Air Force (VCSAF) on 23 March 2016 to re-host the Compass Call Prime Mission Equipment from an EC-130H to a commercial aircraft that is more operationally effective and survivable and meets the requirements of the combatant commands.

FY 2017 includes \$29.8M of Overseas Contingency Operations funding. \$28.6M is for two SPEAR Gen 3 ship-sets and is included in the Group B Kit procurement line. The remaining \$1.2M of funding is included in the P-3A for Mod Number 1001 (COMPASS CALL).

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
<p>FY 2018 OCO funds identified in the Group B kit prices include \$28.6M for two SPEAR Gen 3 ship-sets. The remaining \$8M covers upgrades to modern communications interception capabilities and avionics to ensure airspace access.</p> <p>The FY 2017 Group B Kit line item includes 2 Group B kits. The second Group B kit procurement is part of the FY 2017 Request Additional Appropriation (RAA). If approved, this kit would be procured for aircraft #2, and the Group B kit in FY 2018 would be for aircraft #3.</p> <p>Funding for this exhibit is contained in PE 0207253F.</p> <p>Milestone/Development Status</p> <p>The COMPASS CALL weapon system is continuously improved using a rapid development and acquisition process supporting a baseline upgrade strategy. User needs and technology opportunities are continuously reviewed and a new mission equipment baseline is defined approximately every 36 months. The COMPASS CALL Baseline 3 configuration will begin initial fielding in 2020. Two (2) COMPASS CALL mission aircraft are projected to receive the Baseline 3 configuration upgrades through FY 2023.</p>		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: EC-130H			Modification Type: Capability Improvement				Related RDT&E PEs: 0207253F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 23.776	1 / 12.244	- / -	1 / 12.244	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / 23.776	- / 12.244	- / -	- / 12.244	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
Baseline 3:EQUIPMENT Group B (Active)	- / -	- / -	2 / 73.392	1 / 23.900	- / 36.600	1 / 60.500	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / 73.392	- / 23.900	- / 36.600	- / 60.500	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Baseline 3</i>	- / -	- / -	- / 97.168	- / 36.144	- / 36.600	- / 72.744	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 97.168	- / 36.144	- / 36.600	- / 72.744	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / -	- / 10.300	- / 17.714	- / 0.997	- / -	- / 0.997	- / -	- / -	- / -	- / -	- / -	- / -
GROUP B: TOTAL NONRECURRING	- / -	- / 7.716	- / 151.201	- / 12.700	- / -	- / 12.700	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 12.125	- / -	- / 12.125	- / -	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP	- / -	- / 15.280	- / 16.000	- / 10.150	- / 16.000	- / 16.150	- / -	- / -	- / -	- / -	- / -	- / -
SIM/TRAINER	- / -	- / -	0 / 9.197	0 / 0.600	- / -	0 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -
OTHER GOVT	- / -	- / -	- / -	1 / 108.173	0 / 0.000	1 / 108.173	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / 23.296	0 / 84.112	1 / 114.745	0 / 6.000	1 / 120.745	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1: Baseline 3</i>												
<i>Subtotal: Installation</i>	- / -	- / -	1 / 12.119	1 / 7.652	- / -	1 / 7.652	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	23.296	193.399	158.541	42.600	201.141	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

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

Manufacturer Information

Manufacturer Name: L-3 Technologies	Manufacturer Location: Waco, TX
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 2

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Jun 2017	Nov 2017				
Delivery Dates		Aug 2017	Jan 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	1 / 12.119	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	1 / 7.652	- / -	1 / 7.652	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 12.119	1 / 7.652	- / -	1 / 7.652	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	0	6
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	3	6

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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: CFIN00 / combat flight inspection (CFIN)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0401314F	Other Related Program Elements: 0401314F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	0.495	0.000	0.495	0.503	0.512	0.000	0.000	-	1.510
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	0.495	0.000	0.495	0.503	0.512	0.000	0.000	-	1.510
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	0.495	0.000	0.495	0.503	0.512	0.000	0.000	-	1.510

(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:

Funds are required to procure and sustain unique military equipment on three FAA owned, Air Force operated, Canadair Challenger flight inspection aircraft to provide the DoD Combat Flight Inspection (CFIN) capability. CFIN is an Air Force combat capability to validate and certify airfield instrument approach and landing equipment, and associated instrument procedures, are safe and meet specifications before all-weather combat flight operations can begin. The CFIN capability is provided by three FAA Canadair Challenger aircraft modified with unique military equipment required for the CFIN mission, including secure anti-jam radios, military Identification Friend or Foe Mode IV and V transponders, and survivability equipment. CFIN is a new start in FY18.

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: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: DARP01 / RC-135
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305207F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	165.715	211.438	201.559	0.000	201.559	184.779	188.189	191.658	195.496	0.000	1,338.834
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	165.715	211.438	201.559	0.000	201.559	184.779	188.189	191.658	195.496	0.000	1,338.834
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	165.715	211.438	201.559	0.000	201.559	184.779	188.189	191.658	195.496	0.000	1,338.834

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

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

Description:

The USAF's Manned Reconnaissance Systems program includes seventeen RC-135V/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 and 2012 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 645th Aeronautical Systems Group (645 AESG) Baseline integration and modification upgrade strategy and synergies gained with long standing relationships with the RC-135 industry partners.

FY18 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 ten 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, FY18 procurement will ensure integration and fielding of the RC-135 ground systems to include RIVET JOINT Mission Trainer (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 verification and certification of software builds that are continuously modified to address the dynamic mission requirements of these weapons systems. The RIVET JOINT Baseline 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: FY 2018 Air Force		Date: May 2017
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		
<p>Due to the changing threat and rapidly evolving electromagnetic combat environment encountered during our prolonged commitment to Overseas Contingency Operations (OCO) and the global war on terrorism, the acquisition program manager has the authority to redirect funding as necessary to meet current states and emerging Combatant Commander and/or Intelligence Community requirements to better meet the war fighting objectives.</p>		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	_2504 / COBRA BALL (Capability Improvement)				- / -	- / 6.144	- / 6.325	- / 6.959	- / 0.000	- / 6.959
P-40a***	4265 / COMBAT SENT (Capability Improvement)				- / -	- / 6.633	- / 20.728	- / 6.793	- / -	- / 6.793
P-3a	4263 / RIVET JOINT (Capability Improvement)				- / -	- / 152.938	- / 184.385	- / 187.807	- / 0.000	- / 187.807
P-40	Total Gross/Weapon System Cost				- / -	- / 165.715	- / 211.438	- / 201.559	- / 0.000	- / 201.559

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	_2504 / COBRA BALL (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	4265 / COMBAT SENT (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	4263 / RIVET JOINT (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 184.779	- / 188.189	- / 191.658	- / 195.496	- / 0.000	- / 1,338.834

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 4263 / RIVET JOINT

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	152.938	184.385	187.807	0.000	187.807	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	152.938	184.385	187.807	0.000	187.807	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	152.938	184.385	187.807	0.000	187.807	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	51.958	47.734	49.396	-	49.396	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY18 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. Due to the rapidly changing global threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Command (CCMD) and Intelligence Community (IC) requirements.

The Operational Requirements Document (ORD '99) addresses airframe, sensor, navigation, communications, data link, and processing requirements necessary to keep the RC-135 fleet viable through 2040. A Program Management Directive (PMD) provides direction to the 645th Aeronautical Systems Group (645 AESG) for the acquisition, and sustainment of the weapons system, associated mission support equipment, and processing, exploitation and dissemination tools.

The RC-135V/W RIVET JOINT program Defense Airborne Reconnaissance Program (DARP)/Manned Reconnaissance Systems is managed as an incremental baseline upgrade acquisition strategy in order to maintain collection parity with an evolving threat environment. 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 and purchased in the first year of the procurement funding cycle and are acquired and installed in the next year. This acquisition strategy has been successful in maintaining critical combat capability in the Intelligence, Surveillance and Reconnaissance (ISR) arena over the last 50 years.

FY18 procurement funding will concentrate on sustainment of the fielded RIVET JOINT Baseline 12 configured aircraft. Baseline 12 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 signals intelligence (SIGINT) system (DSS) integration, wideband global satellite (WGS) enhanced integration, increased near real time (NRT) national tactical integration, improved operator interface and reporting tools, enhancing capabilities in dense signal environments (search-thru-interference improvement), re-double copy channel count, increased digital signal exploitation, increased digital signal recorder bandwidth, Specific Emitter ID improvement, enhanced spatial processing/exploitation, Air Force Distributed Common Ground System (AF-DCGS) interoperability, operator work station 3-D map projection, enhanced operator reporting management tools, modernized communications security Communications Security (COMSEC) protocols, continued CNS/ATM and Required Navigation Performance (RNP) compliant cockpit avionics enhancements to include addressing any obsolescence issues, new steerable beam antenna, weight reduction phase 4, enhanced weather radar, digitally enhanced electronic flight instrument system (EFIS).

Funding for this exhibit contained in PE 0305207F.

Milestone/Development Status

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 4263 / RIVET JOINT
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
FY 18 procurement funding associated with acquisition, integration, fielding and logistical support efforts for the 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 16 and FY 17 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: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: DARP01 / RC-135					Modification Number / Title: 4263 / RIVET JOINT			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: RC-135V, RC-135W, TC-135W				Modification Type: Capability Improvement				Related RDT&E PEs: 0305207F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 12</i>													
A Kits													
Recurring													
Baseline 12:INSTALL KITS Group A (Active)	- / -	4 / 12.160	4 / 12.315	4 / 12.881	- / -	4 / 12.881	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / 12.160	- / 12.315	- / 12.881	- / -	- / 12.881	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
Baseline 12:EQUIPMENT Group B (Active)	- / -	4 / 93.263	4 / 123.259	4 / 125.828	- / -	4 / 125.828	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / 93.263	- / 123.259	- / 125.828	- / -	- / 125.828	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Baseline 12</i>	- / -	- / 105.423	- / 135.574	- / 138.709	- / -	- / 138.709	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 105.423	- / 135.574	- / 138.709	- / -	- / 138.709	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
PMA - Other Gov't Costs	- / -	- / 1.314	- / 1.315	- / 1.316	- / -	- / 1.316	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / 1.314	- / 1.315	- / 1.316	- / -	- / 1.316	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1: Baseline 12</i>													
<i>Subtotal: Installation</i>	- / -	4 / 46.201	4 / 47.496	4 / 47.782	0 / 0.000	4 / 47.782	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	152.938	184.385	187.807	0.000	187.807	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: DARP01 / RC-135	Modification Number / Title: 4263 / RIVET JOINT
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: Baseline 12

Manufacturer Information

Manufacturer Name: L-3 Technologies Manufacturer Location: Greenville, TX

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 9

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	4 / 46.201	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	4 / 47.496	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	4 / 47.782	- / -	4 / 47.782	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	4 / 46.201	4 / 47.496	4 / 47.782	0 / 0.000	4 / 47.782	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	0	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	0	28

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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
--	--	---

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	104.676	12.828	89.386	189.772	0.000	189.772	153.386	167.173	152.250	159.675	113.962	1,143.108
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	104.676	12.828	89.386	189.772	0.000	189.772	153.386	167.173	152.250	159.675	113.962	1,143.108
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	104.676	12.828	89.386	189.772	0.000	189.772	153.386	167.173	152.250	159.675	113.962	1,143.108

(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. FY17 funding totals include \$6.6M appropriated for Overseas Contingency Operations.

The Next Generation Identify Friend or Foe (NGIFF) upgrades AWACS with enhanced Identification Friend or Foe (IFF) interrogator operations to add a more secure Mode 5 capability. NGIFF will also integrate Mode S, a civilian air traffic control capability residing in the NGIFF hardware. The FY15 President's Budget divested seven (7) E-3 aircraft, which reduced the fleet size from thirty one (31) to twenty four (24). Congress did not accept the Air Force's proposed FY15 AWACS divestiture, and in response, the Air Force FY16 President's Budget submission re-phased the E-3 force reduction of seven (7) aircraft to FY19. NGIFF production concludes prior to the proposed FY19 divestiture, and as such, will be executing to a programmatic baseline of 31 aircraft.

In accordance with the FY16 NDAA, the Air Force will begin procuring kits for additional aircraft MODS in anticipation of the FY19 AWACS buyback plan.

Life of Type (LoT) buy to procure parts for retrofit of Production jets.

In FY18, the DRAGON program inadvertently received \$20.8M in funds designated for the Block 40/45 (WSC E34045) program to initiate the buyback of seven aircraft.

In FY17 DRAGON was a new start.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	50001P / TSI (No text provided.)				- / 16.450	- / 2.557	- / -	- / 0.000	- / -	- / 0.000
P-40a***	7225 / NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF) (Capability Improvement)				- / 53.556	- / 1.024	- / 5.867	- / -	- / -	- / -
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)				- / 5.624	- / 0.687	- / 0.687	- / 0.700	- / -	- / 0.700
P-40a***	9707 / RM&A Mod (Reliability & Maintainability)				- / 20.106	- / 0.825	- / 0.668	- / 0.620	- / -	- / 0.620
P-40a***	9708 / Virtual Warfare Center (Capability Improvement)				- / -	- / -	- / -	- / 9.439	- / -	- / 9.439
P-40a***	9716 / VERTICAL STABILIZER AND RUDDER (Reliability & Maintainability)				- / 1.952	- / 0.665	- / 0.287	- / 0.135	- / -	- / 0.135
P-40a***	99999XA / LOW COST MOD - AIRFRAME (Reliability & Maintainability)				- / 0.250	- / 0.100	- / 0.100	- / 0.131	- / -	- / 0.131
P-40a***	99999XB / LOW COST MOD - AVIONICS & MISSION SYSTEMS (Reliability & Maintainability)				- / 0.250	- / 0.100	- / 0.100	- / 0.131	- / -	- / 0.131
P-3a	9709 / E-3 DRAGON (Capability Improvement)				- / 0.000	- / 0.000	- / 56.188	- / 120.647	- / 0.000	- / 120.647
P-3a	9717 / ELECTRONIC PROTECTION (Capability Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 22.139	- / 0.000	- / 22.139
P-3a	9718 / IP-enabled Capability (IPEC) (Capability Improvement)				- / 6.488	- / 6.870	- / 25.489	- / 35.830	- / 0.000	- / 35.830
P-40	Total Gross/Weapon System Cost				- / 104.676	- / 12.828	- / 89.386	- / 189.772	- / 0.000	- / 189.772

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	50001P / TSI (No text provided.)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	7225 / NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9707 / RM&A Mod (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9708 / Virtual Warfare Center (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9716 / VERTICAL STABILIZER AND RUDDER (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999XA / LOW COST MOD - AIRFRAME (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999XB / LOW COST MOD - AVIONICS & MISSION SYSTEMS (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9709 / E-3 DRAGON (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9717 / ELECTRONIC PROTECTION (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9718 / IP-enabled Capability (IPEC) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-40	Total Gross/Weapon System Cost				- / 153.386	- / 167.173	- / 152.250	- / 159.675	- / 113.962	- / 1,143.108

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00300 / E-3	Modification Number / Title: 9709 / E-3 DRAGON

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	56.188	120.647	0.000	120.647	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	56.188	120.647	0.000	120.647	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	56.188	120.647	0.000	120.647	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	-	11.828	11.651	-	11.651	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

E-3 DMS Replacement of Avionics for Global Operations and Navigation (DRAGON): DRAGON completes the Federal Aviation Administration (FAA), International Civil Aviation Organization (ICAO), and European Organization for the Safety of Air Navigation (EUROCONTROL) air traffic control mandated safety of flight capabilities. This program will provide the E-3 fleet with the flight instruments and other avionics for the Required Navigation Performance (RNP), and the surveillance and communication capabilities necessary to maintain continued critical unrestricted access to global airspace. Non-compliance will result in airspace restrictions and denials that will impact AWACS ability to support worldwide responses to situations requiring immediate on-scene BM/C2. DRAGON replaces the existing Diminishing Manufacturing Sources (DMS) Global Positioning System (GPS) Integrated Navigation System (GINS) with a modern Flight Management System (FMS) that will accommodate new capabilities including Mode 5 Identification Friend or Foe (IFF) and Joint Mission Planning System (JMPS). Also included as part of the modification is the addition of data link communications, voice and data link digital radios, and improved visual displays. Additionally, the acquisition of DRAGON flight simulators also contains DMS efforts which include removal of end-of-life software/hardware within simulator systems and move to a modular, common open system architecture that is sustainable and cyber resilient. The simulator effort also implements requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative. Emphasis on employment of Commercial-Off-The-Shelf (COTS) avionics is expected to lower cost, reduce the tech refresh cycle, and enhance life cycle management. DRAGON will provide development of support and test equipment needed for DRAGON production; DRAGON will also provide initial DMS and Initial Contractor Support (ICS) needed to support the first US developmental test aircraft (i.e., D-1) prior to the contract award of the DRAGON production effort. The Engineering and Manufacturing Development (EMD) phase of DRAGON is being executed as a Cooperative Program between the US and NATO.

Milestone/Development Status

FY11-FY17 RDT&E funds support integration of the DRAGON requirements. EMD Contract Award: November 2011 Milestone B Approval: November 2011 Projected Milestone C Approval: May 2017

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: E00300 / E-3				Modification Number / Title: 9709 / E-3 DRAGON				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: E-3B, E-3C				Modification Type: Capability Improvement				Related RDT&E PEs: 0207417F				
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 320.744	- / 73.277	- / 40.123	- / 7.382	- / -	- / 7.382	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 1: DRAGON												
A Kits												
Recurring												
DRAGON:INSTALL KITS Group A (Active)	- / -	- / -	1 / 7.545	4 / 23.793	- / -	4 / 23.793	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / -	- / 7.545	- / 23.793	- / -	- / 23.793	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
DRAGON:EQUIPMENT Group B (Active)	- / -	- / -	1 / 15.096	4 / 69.380	- / -	4 / 69.380	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / -	- / 15.096	- / 69.380	- / -	- / 69.380	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: DRAGON	- / -	- / -	- / 22.641	- / 93.173	- / -	- / 93.173	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Procurement, All Modification Items	- / -	- / -	- / 22.641	- / 93.173	- / -	- / 93.173	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / 21.222	- / 14.177	- / -	- / 14.177	- / -	- / -	- / -	- / -	- / -	- / -
Change Orders	- / -	- / -	- / 3.864	- / 16.409	- / -	- / 16.409	- / -	- / -	- / -	- / -	- / -	- / -
SIM/TRAINER	- / -	- / -	1 / 5.028	1 / 4.286	- / -	1 / 4.286	- / -	- / -	- / -	- / -	- / -	- / -
ICS-Labor	- / -	- / -	- / -	- / 10.000	- / -	- / 10.000	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Contractor Services	- / -	- / -	- / 1.066	- / 3.724	- / -	- / 3.724	- / -	- / -	- / -	- / -	- / -	- / -
OTHER GOVT	- / -	- / -	- / 1.144	- / 1.378	- / -	- / 1.378	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	- / -	- / 1.223	- / 2.210	- / -	- / 2.210	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Support	- / -	- / -	1 / 33.547	1 / 22.184	- / -	1 / 22.184	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 1: DRAGON												
Subtotal: Installation	- / -	- / -	- / -	1 / 5.290	- / -	1 / 5.290	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	56.188	120.647	0.000	120.647	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00300 / E-3	Modification Number / Title: 9709 / E-3 DRAGON
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: DRAGON

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD

Administrative Leadtime (in Months): 6 Production Leadtime (in Months): 18

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Apr 2017	Apr 2018				
Delivery Dates		Oct 2018	Oct 2019				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	1 / 5.290	- / -	1 / 5.290	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 5.290	- / -	1 / 5.290	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	2	1	1	1	2	11	23
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	2	-	-	1	2	15	23

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: E00300 / E-3	Modification Number / Title: 9717 / ELECTRONIC PROTECTION

ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	22.139	0.000	22.139
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	22.139	0.000	22.139
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	22.139	0.000	22.139
<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>)	-	-	0.562	1.981	-	1.981
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-

Description:

This program, P-3A Mod 9717, ELECTRONIC PROTECTION, is a new start.

Electronic Protection (EP) will provide improved radar processing in a specific flight environment to meet a classified requirement. Processing will initially address radar modes comprising 90% of operational AWACS radar usage. EP will install an adjunct processor that works in parallel with the current Radar System Improvement Program (RSIP) system. The EP-processed radar picture will appear on the battle manager's display in place of the current RSIP output when the EP radar modes are selected.

The EP program plans for a life of type Commercial Off-The-Shelf (COTS) equipment buy to address the short life-cycles in high tech components starting in late FY18. The program will buy COTS equipment including initial spares. Equipment non-recurring Group B includes efforts for Capital Equipment Replacement, Active Diminishing Manufacturing Sources (DMS), and Software Releases. This modification has related RDT&E funding in PE 0207417F

Milestone/Development Status

EMD risk reduction activities funded initially by C2ISR began in FY13 and continue under EP into FY14. Milestone B completion date: July 2015. EMD contract award date: September 2015.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: E00300 / E-3		Modification Number / Title: 9717 / ELECTRONIC PROTECTION	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: E-3		Modification Type: Capability Improvement			Related RDT&E PEs: 0207417F	
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 29.528	- / 41.217	- / 16.792	- / 30.895	- / -	- / 30.895
Procurement						
Modification Item 1 of 1: Electronic Protection						
A Kits						
Recurring						
Electronic Protection:INSTALL KITS Group A (Active)	- / -	- / -	- / -	14 / 4.740	- / -	14 / 4.740
Subtotal: Recurring	- / -	- / -	- / -	- / 4.740	- / -	- / 4.740
B Kits						
Recurring						
Electronic Protection:EQUIPMENT Group B (Active)	- / -	- / -	- / -	14 / 12.096	- / -	14 / 12.096
Subtotal: Recurring	- / -	- / -	- / -	- / 12.096	- / -	- / 12.096
Subtotal: Electronic Protection	- / -	- / -	- / -	- / 16.836	- / -	- / 16.836
Subtotal: Procurement, All Modification Items	- / -	- / -	- / -	- / 16.836	- / -	- / 16.836
Support (All Modification Items)						
Change Orders	- / -	- / -	- / -	- / 0.333	- / -	- / 0.333
SUPPORT-EQUIP	- / -	- / -	- / -	- / 3.785	- / -	- / 3.785
ICS-Labor	- / -	- / -	- / -	- / 0.527	- / -	- / 0.527
PMA - Contractor Services	- / -	- / -	- / -	- / 0.658	- / -	- / 0.658
Subtotal: Support	- / -	- / -	- / -	- / 5.303	- / -	- / 5.303
Installation						
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	22.139	0.000	22.139

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: E00300 / E-3	
		Modification Number / Title: 9717 / ELECTRONIC PROTECTION	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 1: Electronic Protection			
Manufacturer Information			
Manufacturer Name: TBD		Manufacturer Location: TBD	
Administrative Leadtime (in Months): 8		Production Leadtime (in Months): 8	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates			Jun 2018
Delivery Dates			Feb 2019
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force	Date: May 2017
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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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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6.488	6.870	25.489	35.830	0.000	35.830
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6.488	6.870	25.489	35.830	0.000	35.830
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6.488	6.870	25.489	35.830	0.000	35.830

(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:

Internet Protocol Enabled Communication (IPEC): IPEC will provide the E-3G aircraft with a medium-bandwidth IP communications capability to connect to the Global Information Grid (GIG) 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 risk reduction activities funded by C2ISR began 1Q FY15. EMD contract awarded 21 September 2015.

Limited Production Contract awarded 4 November 2016. Projected Milestone C: April 2018

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017	
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)	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: E-3		Modification Type: Capability Improvement			Related RDT&E PEs: 0207417F	
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 22.438	- / 15.789	- / 14.280	- / -	- / -	- / -
Procurement						
<i>Modification Item 1 of 1: IP Enabled Communication</i>						
A Kits						
Recurring						
IP Enabled Communication:INSTALL KITS Group A (Active)	3 / 2.225	3 / 2.232	7 / 7.109	11 / 11.050	- / -	11 / 11.050
<i>Subtotal: Recurring</i>	- / 2.225	- / 2.232	- / 7.109	- / 11.050	- / -	- / 11.050
B Kits						
Recurring						
IP Enabled Communication:EQUIPMENT Group B (Active)	3 / 3.752	3 / 3.758	7 / 15.002	11 / 19.166	- / -	11 / 19.166
<i>Subtotal: Recurring</i>	- / 3.752	- / 3.758	- / 15.002	- / 19.166	- / -	- / 19.166
<i>Subtotal: IP Enabled Communication</i>	- / 5.977	- / 5.990	- / 22.111	- / 30.216	- / -	- / 30.216
<i>Subtotal: Procurement, All Modification Items</i>	- / 5.977	- / 5.990	- / 22.111	- / 30.216	- / -	- / 30.216
Support (All Modification Items)						
GROUP A: TOTAL NONRECURRING	- / -	- / 0.000	- / -	- / 0.000	- / -	- / 0.000
GROUP B: TOTAL NONRECURRING	- / -	- / 0.000	- / 0.107	- / 0.000	- / -	- / 0.000
Change Orders	- / 0.278	- / 0.306	- / 1.024	- / 0.750	- / -	- / 0.750
SIM/TRAINER	- / -	- / -	0 / 0.000	1 / 2.070	- / -	1 / 2.070
ICS-Labor	- / -	- / 0.000	- / 0.740	- / 0.410	- / -	- / 0.410
SUPPORT-EQUIP	- / -	- / 0.321	- / -	- / 0.000	- / -	- / 0.000
PMA - Contractor Services	- / -	- / 0.000	- / 0.609	- / 1.464	- / -	- / 1.464
PMA - Other Gov't Costs	- / 0.233	- / 0.253	- / 0.898	- / 0.920	- / -	- / 0.920
<i>Subtotal: Support</i>	- / 0.511	- / 0.880	0 / 3.378	1 / 5.614	- / -	1 / 5.614
Installation						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)	6.488	6.870	25.489	35.830	0.000	35.830

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
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)		ID Code (A=Service Ready, B=Not Service Ready) :	
		MDAP/MAIS Code:	
Modification Item 1 of 1: IP Enabled Communication			
Manufacturer Information			
Manufacturer Name: Boeing		Manufacturer Location: Oklahoma City	
Administrative Leadtime (<i>in Months</i>): 1		Production Leadtime (<i>in Months</i>): 10	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates	Nov 2016	Jan 2017	Jan 2018
Delivery Dates	Sep 2017	Nov 2017	Nov 2018
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 23	

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	93.628	22.071	53.348	30.493	0.000	30.493	57.551	52.462	24.304	7.960	0.000	341.817
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	93.628	22.071	53.348	30.493	0.000	30.493	57.551	52.462	24.304	7.960	0.000	341.817
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	93.628	22.071	53.348	30.493	0.000	30.493	57.551	52.462	24.304	7.960	0.000	341.817

(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 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. Funding also supports emerging modification requirements, Government travel, Advisory and Assistance Services Contract (A&ASC) & Federally Funded Research and Development Contract (FFRDC) support, equipment as required.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	3410 / NPES (NC2AIS) E-4B (Reliability & Maintainability)				- / 2.030	- / 0.700	- / -	- / -	- / -	- / -
P-40a***	4406A / SHF Modernization (Capability Improvement)				- / 68.391	- / 19.509	- / -	- / -	- / -	- / -
P-40a***	4406B / AEHF Compatible Terminal/PNVC (Capability Improvement)				- / 0.000	- / -	- / 0.017	- / -	- / -	- / -
P-40a***	9709F / CNS/ATM(ADS-B OUT) (Capability Improvement)				- / 0.520	- / -	- / 4.720	- / 4.860	- / -	- / 4.860
P-40a***	99999S / SERVICE BULLETINS (Reliability & Maintainability)				- / 17.252	- / 0.875	- / 5.416	- / 3.262	- / -	- / 3.262
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)				- / 5.435	- / 0.987	- / 1.990	- / 1.938	- / -	- / 1.938
P-3a	4409 / Low Frequency Transmit System (LFTS) (Capability Improvement)				- / 0.000	- / 0.000	- / 41.205	- / 20.433	- / 0.000	- / 20.433
P-40	Total Gross/Weapon System Cost				- / 93.628	- / 22.071	- / 53.348	- / 30.493	- / 0.000	- / 30.493

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	3410 / NPES (NC2AIS) E-4B (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	4406A / SHF Modernization (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	4406B / AEHF Compatible Terminal/PNVC (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9709F / CNS/ATM(ADS-B OUT) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999S / SERVICE BULLETINS (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	4409 / Low Frequency Transmit System (LFTS) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 57.551	- / 52.462	- / 24.304	- / 7.960	- / 0.000	- / 341.817

*** 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: FY 2018 Air Force		Date: May 2017
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)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	41.205	20.433	0.000	20.433	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	41.205	20.433	0.000	20.433	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	41.205	20.433	0.000	20.433	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	-	5.338	1.072	-	1.072	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

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) completed in March 2016. The prototype kit was funded with FY16 RDT&E. The first production kit will be purchased with FY17 procurement funding and installed with FY19 funds due to an 18 month lead time. Other efforts will include integration and support activities and logistics planning.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: E-4B	Modification Type: Capability Improvement	Related RDT&E PEs: 0302015F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 51.950	- / 17.794	- / 20.029	- / -	- / 20.029	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 1: LFTS Baseline Kit												
A Kits												
Recurring												
LFTS Baseline Kit:INSTALL KITS Group A (Active)	- / -	- / -	1 / 15.151	1 / 20.033	- / -	1 / 20.033	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / 15.151	- / 20.033	- / -	- / 20.033	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
LFTS Baseline Kit:EQUIPMENT Group B (Active)	- / -	- / -	- / 15.151	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / 15.151	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: LFTS Baseline Kit</i>	- / -	- / -	- / 30.302	- / 20.033	- / -	- / 20.033	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 30.302	- / 20.033	- / -	- / 20.033	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
SIM/TRAINER	- / -	- / -	0 / 10.503	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	- / -	- / 10.400	- / 10.400	- / -	- / 10.400	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / -	0 / 10.903	- / 10.400	- / -	- / 10.400	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	41.205	20.433	0.000	20.433	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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): 18

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Jun 2017	May 2018				
Delivery Dates		Dec 2018	Nov 2019				

Installation Information

Method of Implementation: Depot

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	0	3
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	0	3

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: E00800 / E-8
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207581F	Other Related Program Elements: 0207581F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	105.683	18.001	9.244	13.232	3.000	16.232	0.000	0.000	0.000	0.000	-	149.160
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	105.683	18.001	9.244	13.232	3.000	16.232	0.000	0.000	0.000	0.000	-	149.160
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	105.683	18.001	9.244	13.232	3.000	16.232	0.000	0.000	0.000	0.000	-	149.160

(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.

There are 16 E-8Cs in the inventory. Additional analysis is in work to determine the individual design service life of each of these aircraft.

FY18 funds cover three modification efforts:

1. Primary Mission Equipment (PME) Diminishing Manufacturing Sources (DMS)

PME 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. FY18 activities include: final two aircraft modification installations, contract closeout activities, disposition of government furnished property, and advisory and assistance support.

2. Combined Enterprise Regional Information Exchange System (CENTRIXs)

Central Command identified CENTRIXs as a requirement in Urgent Operational Need (UON) # CAF 301-10. CENTRIXs is the coalition network used by Joint Forces supporting FOL operations. It provides operational users with chat, e-mail, web browsing and processing of Microsoft Office documents received in the network. CENTRIXs is a global data network enterprise for U.S. and partner forces to share classified operational and intelligence information, region to region, for combined planning, unity of effort, and decision superiority in peacekeeping and contingency operations.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft		P-1 Line Item Number / Title: E00800 / E-8
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207581F	Other Related Program Elements: 0207581F
Line Item MDAP/MAIS Code: N/A		
<p>FY18 activities include: procurement of 16 CENTRIXs kits and 4 installations.</p> <p>3. Emergency Locator Transmitter (ELT)</p> <p>The current Joint STARS ELT operates on the older 121.5/243.0 MHz frequency that the international COSPAS-SARSAT satellite system no longer monitors. The upgraded ELT operates on 121.5/406 MHz allowing the international satellite system to monitored the frequency. In the event of a distressed E-8C aircraft, the new frequency reduces the risk of recovery of aircrew and military equipment.</p> <p>FY18 OCO activities include: procurement of 16 ELT kits and 8 installations.</p> <p>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.</p> <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p>		
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: FY 2018 Air Force **Date:** May 2017

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): B	Program Elements for Code B Items: 0207417F	Other Related Program Elements: 0207417F
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Line Item MDAP/MAIS Code: 277

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	191.284	178.308	245.227	164.786	0.000	164.786	66.604	31.360	0.000	0.000	0.000	877.569
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	191.284	178.308	245.227	164.786	0.000	164.786	66.604	31.360	0.000	0.000	0.000	877.569
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	191.284	178.308	245.227	164.786	0.000	164.786	66.604	31.360	0.000	0.000	0.000	877.569

(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 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 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 full-rate production aircraft from twenty five (25) to eighteen (18). The program is in the process of awarding a contract inclusive of one last LoT buy to procure remaining Block 40/45 production kits, six (6) to be used to retrofit the LRIP jets and the other kits to modify the remaining Block 30/35 jets. \$21.800 million is required in FY17 to address emergency warfighting readiness requirements. Restores procurement funds for the Block 40/45 AWACS modification for one active duty AWACS Operations Squadron. Provides increased capability through improvements in user interface, battle management tools, multi-source integration and enhanced data link. 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. Depot activation of select components and implementation of a Performance Based Logistics (PBL) strategy recommended by our Product Support Business Case Analysis are in work. Funding for this modification had previously been contained in Weapon System Code (WSC) E00300, but as part of OSD's Major Programs Transparency Initiative and starting in FY 15, the AWACS Block 40/45 Upgrade (MDAP) was moved to WSC E34045. Prior year funding remains in WSC E00300.

FY 2018 Plan: Program continues to complete block modification upgrades to the 40/45 configuration (E-3G). Five (5) aircraft will commence Programmed Depot Maintenance (PDM) in FY 2018 - three (3) Block 30/35 jets and two (2) LRIP jets [to be retrofitted to the latest Block 40/45 baseline configuration]. One (1) of the jets that began PDM in FY 2017 will be delivered to the 552nd Air Control Wing (ACW) at Tinker AFB, OK. This will bring the total 40/45 (E-3G) configured jets to nineteen (19) by the end of FY 2018. The program will continue to execute an Interim Contractor Support (ICS) contract to maintain fielded jets in preparation for a transition to a long-term Contractor Logistics Support (CLS) contract to be awarded in FY 2018. The program will continue to support the 552nd ACW and field support infrastructure at the

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
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): B	Program Elements for Code B Items: 0207417F	Other Related Program Elements: 0207417F
Line Item MDAP/MAIS Code: 277		
962nd Air Control Squadron at Joint Base Elmendorf- Richardson, AK and the 961st Air Control Squadron at Kadena AFB, Japan. Finally, the program will continue software depot activation activities at the 558th Software Maintenance Squadron (AISF) at Tinker AFB.		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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): B **Program Elements for Code B Items:** 0207417F **Other Related Program Elements:** 0207417F

Line Item MDAP/MAIS Code: 277

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / BLOCK 40/45 BLOCK UPGRADE (Capability Improvement)				- / 191.284	- / 178.308	- / 245.227	- / 164.786	- / 0.000	- / 164.786
P-40	Total Gross/Weapon System Cost				- / 191.284	- / 178.308	- / 245.227	- / 164.786	- / 0.000	- / 164.786

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / BLOCK 40/45 BLOCK UPGRADE (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 66.604	- / 31.360	- / 0.000	- / 0.000	- / 0.000	- / 877.569

*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: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	191.284	178.308	245.227	164.786	0.000	164.786	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	191.284	178.308	245.227	164.786	0.000	164.786	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	191.284	178.308	245.227	164.786	0.000	164.786	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	5.306	4.492	3.174	-	3.174	-	-	-	-	-	-
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 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 full-rate production aircraft from twenty five (25) to eighteen (18). The program is in the process of awarding a contract inclusive of one last LoT buy to procure remaining Block 40/45 production kits, six (6) to be used to retrofit the LRIP jets and the other kits to modify the remaining Block 30/35 jets. \$21.800 million is required in FY17 to address emergency warfighting readiness requirements. Restores procurement funds for the Block 40/45 AWACS modification for one active duty AWACS Operations Squadron. Provides increased capability through improvements in user interface, battle management tools, multi-source integration and enhanced data link. 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. Depot activation of select components and implementation of a Performance Based Logistics (PBL) strategy recommended by our Product Support Business Case Analysis are in work. Funding for this modification had previously been contained in Weapon System Code (WSC) E00300, but as part of OSD's Major Programs Transparency Initiative and starting in FY15, the AWACS Block 40/45 Upgrade (MDAP) was moved to WSC E34045. Prior year funding remains in WSC E00300.

FY 2018 Plan: Program continues to complete block modification upgrades to the 40/45 configuration (E-3G) and improve Mission Planning capability. Five (5) aircraft will commence Programmed Depot Maintenance (PDM) in FY 2018 - three (3) Block 30/35 jets and two (2) LRIP jets [to be retrofitted to the latest Block 40/45 baseline configuration]. One (1) of the jets that began PDM in FY 2017 will be delivered to the 552nd Air Control Wing (ACW) at Tinker AFB, OK. This will bring the total 40/45 (E-3G) configured jets to nineteen (19) by the end of FY 2018. The program will continue to execute an Interim Contractor Support (ICS) contract to maintain fielded jets in preparation for a transition to a long-term Contractor Logistics Support (CLS) contract to be awarded in FY 2018. The program will continue to support the 552nd ACW and field support infrastructure at the 962nd Air Control Squadron at Joint Base Elmendorf- Richardson, AK and the 961st Air Control Squadron at Kadena AFB, Japan. Finally, the program will continue software depot activation activities at the 558th Software Maintenance Squadron (AISF) at Tinker AFB and reduce risk for transition to sustainment.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-3				Modification Type: Capability Improvement				Related RDT&E PEs: 0207417F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 4045</i>													
A Kits													
Recurring													
Block 4045:INSTALL KITS Group A (Active)	7 / 35.520	0 / 0.000	4 / 17.245	6 / 47.670	- / -	6 / 47.670	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 35.520	- / 0.000	- / 17.245	- / 47.670	- / -	- / 47.670	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
Block 4045:EQUIPMENT Group B (Active)	- / 26.170	- / -	10 ⁽¹⁾ / 86.995	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 26.170	- / -	- / 86.995	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Block 4045</i>	- / 61.690	- / 0.000	- / 104.240	- / 47.670	- / -	- / 47.670	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / 61.690	- / 0.000	- / 104.240	- / 47.670	- / -	- / 47.670	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 42.600	- / 109.250 ⁽²⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Make New Selection	- / 34.345	- / 19.173	- / 21.856	- / 30.800	- / -	- / 30.800	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / 0.000	- / 49.397	- / 13.165	- / -	- / 13.165	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	- / -	0 / 0.000	0 / 14.224	0 / 11.700	- / -	0 / 11.700	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / 25.780	- / 0.390	- / 20.262	- / 3.250	- / -	- / 3.250	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Labor	- / 13.660	- / 29.293	- / 24.323	- / 25.915	- / -	- / 25.915	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / 1.229	- / 0.700	- / 0.384	- / 1.786	- / -	- / 1.786	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / 0.640	- / 3.103	- / 3.190	- / 1.330	- / -	- / 1.330	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / 4.462	- / 4.700	- / 4.791	- / 5.490	- / -	- / 5.490	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 122.716	0 / 166.609	0 / 138.427	0 / 93.436	- / -	0 / 93.436	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1: Block 4045</i>													
<i>Subtotal: Installation</i>	1 / 6.878	5 / 11.699	1 / 2.560	5 / 23.680	- / -	5 / 23.680	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	191.284	178.308	245.227	164.786	0.000	164.786	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: Block 4045

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Seattle
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 16

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	May 2015 ⁽³⁾	Mar 2016 ⁽⁴⁾					
Delivery Dates	Sep 2017	Apr 2018					

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 6.878	5 / 11.699	1 / 2.560	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	2 / 15.790	- / -	2 / 15.790	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	3 / 7.890	- / -	3 / 7.890	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 6.878	5 / 11.699	1 / 2.560	5 / 23.680	- / -	5 / 23.680	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	1	1	1	2	1	1	-	-	-	1	1	-	-	1	1	1	-	2	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	0	16
Out	0	-	1	-	-	1	2	1	1	1	-	-	-	2	-	-	-	1	-	1	1	2	1	1	-	-	-	-	-	-	-	-	0	16	

Footnotes:
⁽¹⁾ Group B Equipment includes Commercial Off the Shelf (COTS) hardware purchased in Life of Type (LOT) buys in FY12 and FY17
⁽²⁾ 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: FY 2018 Air Force		Date: May 2017
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
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
<p>⁽³⁾ 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>⁽⁴⁾ 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: FY 2018 Air Force **Date:** May 2017

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, 1203001F	Other Related Program Elements: 0303001F, 0303601F
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Line Item MDAP/MAIS Code: 199

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.026	43.843	4.673	24.716	0.000	24.716	14.410	1.985	1.589	0.000	-	118.242
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.026	43.843	4.673	24.716	0.000	24.716	14.410	1.985	1.589	0.000	-	118.242
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.026	43.843	4.673	24.716	0.000	24.716	14.410	1.985	1.589	0.000	-	118.242

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

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

Description:

In FY 2018, due to the creation of a new Major Force Program for Space, funding in this exhibit for "Prior Years" to FY 2017 was originally budgeted in PE 0303001F (FY2016 & FY2017), Family of Advanced Beyond Line-of-Sight Terminals (FAB-T), Project 672490 FAB-T. Funding in this exhibit for FY 2018 to "Cost To complete" is budgeted in PE 1203001, FAB-T, Project FBLOST, FAB-T.

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. In FY 2018, FAB-T will begin full rate production terminal purchases as described in the P-3a, while continuing site survey and terminal install activities, and Interim Contractor Support of existing fielded terminals. Continue program office and other related support activities that may include, but are not limited to studies, technical analysis, etc. 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.

PNVC communication Baseband Interface Group (BIG) equipment purchases will provide voice encoding/decoding and encryption/decryption via KY-280s for use with Milstar and Advanced EHF satellite communication networks. The Multi-Stream Summing Device (MSD-III) provides the audio summing capability of all twelve (12) networks and controls all the conference management data. It also serves as the primary audio interface between the Red Switch and the BIG. This summing device manages the messaging of information for channel access control and message control for conference initiation and termination. The equipment will support Senior Leader Conferencing via Survivable Emergency Communication Networks (SECN) digitization and support, secure, survivable voice conferencing capability for the President and national senior leaders. Continue program office and other related support activities that may include, but are not limited to studies, technical analysis, etc.

In FY 2016, 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: FY 2018 Air Force **Date:** May 2017

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, 1203001F	Other Related Program Elements: 0303001F, 0303601F
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Line Item MDAP/MAIS Code: 199

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Family of Beyond Line-of-Sight Terminals (Capability Improvement)				- / 27.026	- / 43.843	- / 4.673	- / 24.716	- / 0.000	- / 24.716
P-40	Total Gross/Weapon System Cost				- / 27.026	- / 43.843	- / 4.673	- / 24.716	- / 0.000	- / 24.716

*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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: FBLOST / Family of Beyond Line-of-Sight Terminals	Modification Number / Title: 1 / Family of Beyond Line-of-Sight Terminals

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.026	43.843	4.673	24.716	0.000	24.716
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.026	43.843	4.673	24.716	0.000	24.716
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.026	43.843	4.673	24.716	0.000	24.716

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

Initial Spares (<i>\$ in Millions</i>)	-	3.235	3.561	1.343	-	1.343
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. In FY 2018, FAB-T will begin full rate production terminal purchases as described in the P-3a, while continuing site survey and terminal install activities, and Interim Contractor Support of existing fielded terminals. Continue program office and other related support activities that may include, but are not limited to studies, technical analysis, etc. 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.

PNVC communication Baseband Interface Group (BIG) purchases will provide voice encoding/decoding and encryption/decryption via KY-280s for use with Milstar and Advanced EHF satellite communication networks. The Multi-Stream Summing Device (MSD-III) provides the audio summing capability of all twelve (12) networks and controls all the conference management data. It also serves as the primary audio interface between the Red Switch and the BIG. This summing device manages the messaging of information for channel access control and message control for conference initiation and termination. This equipment will support Senior Leader Conferencing via Survivable Emergency Communication Networks (SECN) digitization and support, secure, survivable voice conferencing capability for the President and national senior leaders.

In FY 2016, funding for President of the United States (POTUS) aircraft terminal platform installation and integration was transferred to PE: 0401314F.

Milestone/Development Status

Production contract options to produce CPT terminals were exercised after a successful Milestone C decision was approved on September 1, 2015 and awarded September 14, 2015.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: FBLOST / Family of Beyond Line-of-Sight Terminals			Modification Number / Title: 1 / Family of Beyond Line-of-Sight Terminals	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Models of Systems Affected: E-4, E-6		Modification Type: Capability Improvement			Related RDT&E PEs: 0303001F, 0303601F		
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
	Qty (Each) / Total Cost (\$ M)	Qty (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 #							
0303001F	- / 59.334	- / 3.633	- / 14.555	- / -	- / -	- / -	
Procurement							
Modification Item 1 of 3: FAB-T							
B Kits							
Recurring							
FAB-T:EQUIPMENT Group B (Active)	8 / 25.826	6 / 42.443	1 / 4.473	5 / 18.552	- / -	5 / 18.552	
<i>Subtotal: Recurring</i>	- / 25.826	- / 42.443	- / 4.473	- / 18.552	- / -	- / 18.552	
<i>Subtotal: FAB-T</i>	- / 25.826	- / 42.443	- / 4.473	- / 18.552	- / -	- / 18.552	
Modification Item 2 of 3: PNVC BIG							
B Kits							
Recurring							
PNVC BIG:EQUIPMENT Group B (Active)	- / -	- / -	- / -	6 / 2.000	- / -	6 / 2.000	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 2.000	- / -	- / 2.000	
<i>Subtotal: PNVC BIG</i>	- / -	- / -	- / -	- / 2.000	- / -	- / 2.000	
Modification Item 3 of 3: PNVC MSD-III							
B Kits							
Recurring							
PNVC MSD-III:EQUIPMENT Group B (Active)	- / -	- / -	- / -	9 / 0.464	- / -	9 / 0.464	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.464	- / -	- / 0.464	
<i>Subtotal: PNVC MSD-III</i>	- / -	- / -	- / -	- / 0.464	- / -	- / 0.464	
<i>Subtotal: Procurement, All Modification Items</i>	- / 25.826	- / 42.443	- / 4.473	- / 21.016	- / -	- / 21.016	
Support (All Modification Items)							
A&AS	- / 1.200	- / 1.400	- / 0.200	- / 3.700	- / -	- / 3.700	
Data	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	
Type 1 Training	- / 0.000	- / 0.000	- / -	- / 0.000	- / -	- / 0.000	
ICS-Labor	- / 0.000	- / 0.000	- / -	- / 0.000	- / -	- / 0.000	
SUPPORT-EQUIP	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 1.200	- / 1.400	- / 0.200	- / 3.700	- / -	- / 3.700	
Installation							
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: FBLOST / Family of Beyond Line-of-Sight Terminals			Modification Number / Title: 1 / Family of Beyond Line-of-Sight Terminals	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: E-4, E-6		Modification Type: Capability Improvement		Related RDT&E PEs: 0303001F, 0303601F		
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total						
Total Cost (Procurement + Support + Installation)	27.026	43.843	4.673	24.716	0.000	24.716

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: FBLOST / Family of Beyond Line-of-Sight Terminals	
		Modification Number / Title: 1 / Family of Beyond Line-of-Sight Terminals	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 3: FAB-T			
Manufacturer Information			
Manufacturer Name: Raytheon		Manufacturer Location: Largo, FL	
Administrative Leadtime (<i>in Months</i>): 1		Production Leadtime (<i>in Months</i>): 16	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates	Jul 2016	Apr 2017	Apr 2018
Delivery Dates	Nov 2017	Aug 2018	Aug 2019
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 23	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: FBLOST / Family of Beyond Line-of-Sight Terminals	
		Modification Number / Title: 1 / Family of Beyond Line-of-Sight Terminals	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 2 of 3: PNVC BIG			
Manufacturer Information			
Manufacturer Name: General Dynamics		Manufacturer Location: Scottsdale, AZ	
Administrative Leadtime (<i>in Months</i>): 1		Production Leadtime (<i>in Months</i>): 12	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates			Jan 2018
Delivery Dates			Jan 2019
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 1	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: FBLOST / Family of Beyond Line-of-Sight Terminals	
		Modification Number / Title: 1 / Family of Beyond Line-of-Sight Terminals	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 3 of 3: PNVC MSD-III			
Manufacturer Information			
Manufacturer Name: Raytheon		Manufacturer Location: Largo, FL	
Administrative Leadtime (in Months): 1		Production Leadtime (in Months): 12	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates			Jan 2018
Delivery Dates			Jan 2019
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 9	

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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	Other Related Program Elements: 0401314F, 0804747F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.224	6.291	9.007	3.730	0.000	3.730	2.965	2.701	2.770	2.827	0.000	39.515
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.224	6.291	9.007	3.730	0.000	3.730	2.965	2.701	2.770	2.827	0.000	39.515
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.224	6.291	9.007	3.730	0.000	3.730	2.965	2.701	2.770	2.827	0.000	39.515

(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. Current TH-1H efforts in FY18 are the Automatic Dependent Surveillance- Broadcast.

In FY17 TH-1H Automatic Dependent Surveillance-Broadcast was a new start.

Funding in this exhibit is contained in PE 0101235F, PE 0401314F, and PE 0804747F.

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: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	633.770	67.054	99.057	75.989	0.000	75.989	44.521	32.880	26.567	27.099	16.440	1,023.377
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	633.770	67.054	99.057	75.989	0.000	75.989	44.521	32.880	26.567	27.099	16.440	1,023.377
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	633.770	67.054	99.057	75.989	0.000	75.989	44.521	32.880	26.567	27.099	16.440	1,023.377

(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 Operational Loss Replacement Mission Modification program will deliver 21 additional aircraft, bringing the fleet size to 118 by FY19.

The modification efforts budgeted in FY18 provide safety/survivability upgrades, mission avionics upgrades, operational loss replacement mission modifications, and addresses obsolescence issues.

FY16 funding totals include \$33.5M for Overseas Contingency Operations.

In FY17 HH-60 Datalinks was a new start.

Funding may be used to address Diminishing Manufacturing Source issues.

Funding for this exhibit is contained in PE 0207224F and PE 0207228F.

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	62.769	44.808	53.282	0.000	53.282	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
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		

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
	Total Obligation Authority	0.758	51.627	16.543	0.000	16.543	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.527	2.622	6.164	-	6.164	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	67.054	99.057	75.989	0.000	75.989	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	8254 / ALTITUDE HOLD AND HOVER SYSTEM (AHHS) (Capability Improvement)				- / 35.174	- / 0.599	- / 0.010	- / -	- / -	- / -
P-40a***	8563 / LIGHTWEIGHT AIRBORNE RECOVERY SYSTEM V12 UPGRADE (Capability Improvement)				- / 23.662	- / 0.390	- / -	- / -	- / -	- / -
P-40a***	8565 / Navigation System Upgrade (NSU) (Capability Improvement)				- / 57.127	- / 1.245	- / 3.190	- / 2.720	- / -	- / 2.720
P-40a***	8840 / Vibration Monitoring System (VMS) (Reliability & Maintainability)				- / 39.028	- / 1.885	- / 0.010	- / -	- / -	- / -
P-40a***	8844 / Multi-function Color Display (Capability Improvement)				- / 30.179	- / 1.456	- / 1.259	- / 3.330	- / -	- / 3.330
P-40a***	8850 / MODE 5 (Capability Improvement)				- / 12.895	- / 0.908	- / 8.620	- / 1.564	- / -	- / 1.564
P-40a***	8851 / Gun Replacement (Reliability & Maintainability)				- / 20.220	- / 0.000	- / 10.164	- / 3.276	- / -	- / 3.276
P-40a***	8852 / CSAR Avionics/Electrical Upgrade (Capability Improvement)				- / 15.019	- / 0.758	- / 0.620	- / 0.860	- / 0.000	- / 0.860
P-40a***	8853 / DEFENSIVE SYSTEM UPGRADE (Capability Improvement)				- / 15.019	- / -	- / 0.010	- / -	- / -	- / -
P-40a***	8857 / Rotor Brake (Capability Improvement)				- / -	- / 3.000	- / 0.010	- / -	- / -	- / -
P-40a***	8861 / HH-60 DATALINKS (Capability Improvement)				- / -	- / -	- / 7.700	- / 0.121	- / -	- / 0.121
P-40a***	99999X / Low Cost Modifications (Other)				- / 5.358	- / 0.277	- / 0.464	- / 0.920	- / -	- / 0.920
P-3a	8564 / Control Display Unit (CDU) (Capability Improvement)				- / 13.054	- / 7.570	- / 0.210	- / 10.800	- / 0.000	- / 10.800
P-3a	8854 / HH-60 OLR Mission Modifications (Other)				- / 367.035	- / 5.037	- / 53.754	- / 23.368	- / 0.000	- / 23.368
P-3a	8856 / Block 162 (Service Life Extension)				- / -	- / 43.929	- / 1.336	- / 15.945	- / 0.000	- / 15.945
P-3a	8859 / DVE Sensor (Capability Improvement)				- / 0.000	- / 0.000	- / 11.700	- / 13.085	- / 0.000	- / 13.085
P-40	Total Gross/Weapon System Cost				- / 633.770	- / 67.054	- / 99.057	- / 75.989	- / 0.000	- / 75.989

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	8254 / ALTITUDE HOLD AND HOVER SYSTEM (AHHS) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8563 / LIGHTWEIGHT AIRBORNE RECOVERY SYSTEM V12 UPGRADE (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8565 / Navigation System Upgrade (NSU) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8840 / Vibration Monitoring System (VMS) (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8844 / Multi-function Color Display (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8850 / MODE 5 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8851 / Gun Replacement (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8852 / CSAR Avionics/Electrical Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8853 / DEFENSIVE SYSTEM UPGRADE (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
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		

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	8857 / Rotor Brake (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8861 / HH-60 DATALINKS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8564 / Control Display Unit (CDU) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8854 / HH-60 OLR Mission Modifications (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8856 / Block 162 (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8859 / DVE Sensor (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 44.521	- / 32.880	- / 26.567	- / 27.099	- / 16.440	- / 1,023.377

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8564 / Control Display Unit (CDU)

ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	13.054	7.570	0.210	10.800	0.000	10.800
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	13.054	7.570	0.210	10.800	0.000	10.800
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	13.054	7.570	0.210	10.800	0.000	10.800
<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:

A modification proposal (AF Form 1067, ACC 11-197) has been approved to replace the HH-60G Control Display Unit (CDU). The CDU provides integrated navigation solutions, flight plan displays, and tactical inputs from on-board systems to include either Situation Awareness Data Link (SADL), Multi-mission Advanced Tactical Terminals (MATT), Air Force Tactical Receiver System Ruggedized (AFTRS-R), and/or an Intel Broadcast Receiver (IBR) for near real-time electronic warfare situational awareness. The current CDU dates from the mid-1990s, is displaying a decreasing mean time between failures, and has no growth capacity for future upgrades.

The initial contract for a replacement CDU was terminated in late 2015 due to changes in requirements and lack of progress towards a suitable solution. The HH-60G still requires a CDU update to equip new helicopters entering the fleet via the Operational Loss Replacement program, prevent obsolescence, and provide growth capability. This program adopted a new strategy to procure a completely non-developmental replacement CDU that also preserved the current operator interface. The program office realigned FY16 funds to fund re-host of the HH-60G Operational Flight Program software to the new hardware, and procure an initial lot of replacement CDUs. FY18 funding procures the remaining number of CDUs necessary to equip the entire 118-aircraft fleet (including Operational Loss Replacement aircraft) with the new CDU, funds integration of the new CDU into the HH-60G Weapon System Trainer (simulator), and provides for program management activities.

Milestone/Development Status

RDT&E funding is not a component of this effort.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	7.570	0.210	7.600	-	7.600
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	1.700	-	1.700
AFR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	1.500	-	1.500
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	7.570	0.210	10.800	0.000	10.800

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: H06000 / H-60		Modification Number / Title: 8564 / Control Display Unit (CDU)	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: HH-60G		Modification Type: Capability Improvement		Related RDT&E PEs: 0207224F		
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Qty (Each) / Total Cost (\$ M)	Qty (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: CDU Kit</i>						
B Kits						
Recurring						
CDU Kit:EQUIPMENT Group B (Active)	0 / 7.130	- / -	- / -	0 / 0.000	- / -	0 / 0.000
CDU Kit:EQUIPMENT Group B (Guard)	0 / 1.620	- / -	- / -	0 / 0.000	- / -	0 / 0.000
CDU Kit:EQUIPMENT Group B (Reserve)	0 / 1.350	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	<i>- / 10.100</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.000</i>
<i>Subtotal: CDU Kit</i>	<i>- / 10.100</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.000</i>
<i>Modification Item 2 of 2: CMA 4000 CDU Kit</i>						
B Kits						
Recurring						
CMA 4000 CDU Kit:EQUIPMENT Group B (Active)	- / -	23 / 2.500	- / -	63 / 6.300	- / -	63 / 6.300
CMA 4000 CDU Kit:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	17 / 1.700	- / -	17 / 1.700
CMA 4000 CDU Kit:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	15 / 1.500	- / -	15 / 1.500
<i>Subtotal: Recurring</i>	<i>- / -</i>	<i>- / 2.500</i>	<i>- / -</i>	<i>- / 9.500</i>	<i>- / -</i>	<i>- / 9.500</i>
<i>Subtotal: CMA 4000 CDU Kit</i>	<i>- / -</i>	<i>- / 2.500</i>	<i>- / -</i>	<i>- / 9.500</i>	<i>- / -</i>	<i>- / 9.500</i>
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 10.100</i>	<i>- / 2.500</i>	<i>- / -</i>	<i>- / 9.500</i>	<i>- / -</i>	<i>- / 9.500</i>
Support (All Modification Items)						
GROUP B: TOTAL NONRECURRING	- / -	- / 5.060	- / -	- / -	- / -	- / -
Data	- / 0.010	- / -	- / -	- / -	- / -	- / -
SIM/TRAINER	- / -	- / -	- / -	3 / 0.300	- / -	3 / 0.300
SUPPORT-EQUIP	- / 2.000	- / -	- / -	- / -	- / -	- / -
PMA - Contractor Services	- / 0.574	- / -	- / 0.200	- / 0.250	- / -	- / 0.250
PMA - Other Gov't Costs	- / 0.040	- / 0.010	- / 0.010	- / 0.050	- / -	- / 0.050
OTHER GOVT	- / 0.330	- / -	- / -	- / 0.700	- / -	- / 0.700
<i>Subtotal: Support</i>	<i>- / 2.954</i>	<i>- / 5.070</i>	<i>- / 0.210</i>	<i>3 / 1.300</i>	<i>- / -</i>	<i>3 / 1.300</i>
Installation						
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>
Total						
Total Cost (Procurement + Support + Installation)	13.054	7.570	0.210	10.800	0.000	10.800

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: H06000 / H-60	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 2: CDU Kit			
Manufacturer Information			
Manufacturer Name: TBD		Manufacturer Location: TBD	
Administrative Leadtime (in Months): 5		Production Leadtime (in Months): 6	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates			Mar 2018
Delivery Dates			Sep 2018
Installation Information			
Method of Implementation (Organic): Org/Intermediate			Installation Quantity: 0

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: H06000 / H-60	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 2 of 2: CMA 4000 CDU Kit			
Manufacturer Information			
Manufacturer Name: CMC Electronics		Manufacturer Location: Ottawa,Ontaro, Canada	
Administrative Leadtime (in Months): 3		Production Leadtime (in Months): 9	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates	Sep 2016		Jan 2018
Delivery Dates	Jun 2017		Oct 2018
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 50	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	367.035	5.037	53.754	23.368	0.000	23.368	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	367.035	5.037	53.754	23.368	0.000	23.368	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	367.035	5.037	53.754	23.368	0.000	23.368	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

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.

FY18 funding provides for 3 production installs, engine overhauls, and program management oversight. 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. Trial installation and kit proof kits and installs were procured as part of the non-recurring effort. 20 of 21 required installs are currently funded.

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, a delivery order was placed on an existing Army Logistics Support Facility (LSF) Indefinite Delivery Indefinite Quantity (IDIQ) contract. The remaining production kits were procured on a subsequent delivery order as several kit components are long lead items. FY15-funded installations were procured through another delivery order on the LSF contract. FY17 & FY18-funded installations will be placed on another delivery order via LSF or on an alternate contract vehicle.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

	Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.037	5.754	11.368	-	11.368	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	48.000	12.000	-	12.000	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.037	53.754	23.368	0.000	23.368	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017				
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				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: HH-60G				Modification Type: Other				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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)	3 / 11.275	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
L2G KIT:INSTALL KITS Group A (Guard)	18 / 68.902	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Recurring</i>	- / 80.177	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
B Kits														
Recurring														
L2G KIT:EQUIPMENT Group B (Active)	3 / 18.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
L2G KIT:EQUIPMENT Group B (Guard)	18 / 109.429	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Recurring</i>	- / 127.699	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: L2G KIT</i>	- / 207.876	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Procurement, All Modification Items</i>	- / 207.876	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
Support (All Modification Items)														
GROUP A: TOTAL NONRECURRING	- / 19.722	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
GROUP B: TOTAL NONRECURRING	- / 11.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
Change Orders	- / 6.805	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
Data	- / 10.220	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
SIM/TRAINER	3 / 11.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
SUPPORT-EQUIP	- / 4.500	- / -	- / 0.944	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
PMA - Contractor Services	- / 16.693	- / 3.100	- / 1.400	- / 1.975	- / -	- / 1.975	- / -	- / -	- / -	- / -	- / -	- / -		
PMA - Other Gov't Costs	- / 140.100	- / 0.410	- / 0.310	- / 0.200	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -		
OTHER GOVT	- / 2.600	- / 1.527	- / 3.100	- / 0.485	- / -	- / 0.485	- / -	- / -	- / -	- / -	- / -	- / -		
ICS-Labor	- / 2.483	- / -	- / -	- / 1.600	- / -	- / 1.600	- / -	- / -	- / -	- / -	- / -	- / -		
ICS-Material	- / 0.736	- / -	- / -	- / 1.108	- / -	- / 1.108	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Support</i>	3 / 126.859	- / 5.037	- / 5.754	- / 5.368	- / -	- / 5.368	- / -	- / -	- / -	- / -	- / -	- / -		
Installation														
<i>Modification Item 1 of 1: L2G KIT</i>	9 / 32.300	- / -	8 / 48.000	3 / 18.000	- / -	3 / 18.000	- / -	- / -	- / -	- / -	- / -	- / -		
<i>Subtotal: Installation</i>	9 / 32.300	- / -	8 / 48.000	3 / 18.000	- / -	3 / 18.000	- / -	- / -	- / -	- / -	- / -	- / -		
Total														

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

Models of Systems Affected: HH-60G **Modification Type:** Other **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	367.035	5.037	53.754	23.368	0.000	23.368	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

Modification Item 1 of 1: L2G KIT

Manufacturer Information

Manufacturer Name: Science and Engineering Inc	Manufacturer Location: AL
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	9 / 32.300	- / -	8 / 48.000	3 / 18.000	- / -	3 / 18.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	9 / 32.300	- / -	8 / 48.000	3 / 18.000	- / -	3 / 18.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

PYS	FY 2016	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	2	-	0	0	1	5	6	3	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	20
Out	0	-	-	-	1	1	-	-	1	5	6	3	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	20

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8856 / Block 162

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	43.929	1.336	15.945	0.000	15.945	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	43.929	1.336	15.945	0.000	15.945	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	43.929	1.336	15.945	0.000	15.945	-	-	-	-	-	-
<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 162 Modification Program synchronizes legacy HH-60G aircraft with aircraft modified as part of the Ops Loss Replacement (OLR) effort. In the course of completing the OLR program, certain systems were identified as obsolete. The scope of this modification addresses the obsolete systems identified by the OLR program and is divided into two parts: Avionics Communications Suite Upgrade (ACSU), and the Obsolescence Kit (UH-60L to HH-60G). This effort is driven by AF 1067 ACC 09-153, dated 19 Jan 2010.

The effort begins with conformance of the HH-60G to a baseline with the installation of the Aircraft Communications Suite Upgrade (ACSU). The ACSU kit includes the removal of the Automatic Direction Finder (ADF), radio retransmit, and the Very High and Ultra High Frequency Direction Finder, and replaces those with four (4) ARC-210 Generation 5 radios. The ACSU is already installed on 32 Air National Guard (ANG) and Air Force Reserve (AFRES) aircraft to meet communication and impending obsolescent waveform requirements. Kits purchased for ACSU in this effort will be sufficient to cover the remaining 65 aircraft. ACSU kit procurement was fully funded in FY16. A change of strategy during execution resulted in ACSU installations being combined with 5 other mod/repair installations into a single block of aircraft downtime. This change was done to maximize aircraft availability to meet combatant command requirements. Constraints on the number of aircraft in modification at any one time extended the duration of the installation period, so ACSU installations will now be complete in FY20. FY16 funds previously identified for installations will fund FY17 installation efforts. The final installations in 1QFY20 will be funded with FY19 funds.

After this modification is installed the Obsolescence kit can be applied to all 95 aircraft that require it. The Obsolescence Kit consists of the following components: color weather radar, Tactical Air Navigation (TACAN), Digital Symbol Generator Unit (SGU), and Digital Intercommunications System (ICS). Long-lead items include, but are not limited to the color weather radar, ACSU Group B components, and TACAN Group B components. Existing contracts will be used to the fullest extent possible to procure long lead components. Modification installations may be accomplished by existing H-60 organic depot sources and/or contract field teams. The number of funded installations exceeds the number of kit buys because 13 obsolescence kits are available as government furnished property from other efforts.

The Electronic Fuel Quantity Indicator sustainment modification, which was previously included within Block 162, has been broken out for execution as a low cost modification and is no longer considered part of Block 162.

FY18 funding procures 10 obsolescence kits, installs 22 ACSU kits, and provides for program management activities.

Milestone/Development Status

There is no development associated with this effort. This modification will use technical data gleaned from Mod# 8850, OLR. Due to delays in the OLR program resulting from a late change to the technical baseline configuration, the technical data required to procure and install Block 162 obsolescence kits will not be available until FY18. The installation phase of the obsolescence kit increment of the program has been stretched out into FY24 due to aircraft availability and fiscal constraints.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8856 / Block 162
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

	Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	43.929	1.336	14.245	-	14.245	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.700	-	1.700	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	43.929	1.336	15.945	0.000	15.945	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: H06000 / H-60						Modification Number / Title: 8856 / Block 162		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: HH-60G			Modification Type: Service Life Extension				Related RDT&E PEs: 0207224F, 0207228F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: ACSU Kits												
A Kits												
Recurring												
ACSU Kits:INSTALL KITS Group A (Active)	- / -	65 / 7.491	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / 7.491	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
ACSU Kits:EQUIPMENT Group B (Active)	- / -	65 / 31.514	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / 31.514	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: ACSU Kits	- / -	- / 39.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 2: Obsolescence Kit												
A Kits												
Recurring												
Obsolescence Kit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	8 / 1.165	- / -	8 / 1.165	- / -	- / -	- / -	- / -	- / -	- / -
Obsolescence Kit:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	2 / 0.300	- / -	2 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / -	- / -	- / 1.465	- / -	- / 1.465	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
Obsolescence Kit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	8 / 5.300	- / -	8 / 5.300	- / -	- / -	- / -	- / -	- / -	- / -
Obsolescence Kit:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	2 / 1.400	- / -	2 / 1.400	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / -	- / -	- / 6.700	- / -	- / 6.700	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Obsolescence Kit	- / -	- / -	- / -	- / 8.165	- / -	- / 8.165	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Procurement, All Modification Items	- / -	- / 39.005	- / -	- / 8.165	- / -	- / 8.165	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
PMA - Contractor Services	- / -	- / 0.601	- / 0.400	- / 0.425	- / -	- / 0.425	- / -	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	- / 0.040	- / 0.040	- / 0.040	- / -	- / 0.040	- / -	- / -	- / -	- / -	- / -	- / -
SIM/TRAINER	- / -	1 / 0.718	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
OTHER GOVT	- / -	- / -	- / 0.896	- / 0.156	- / -	- / 0.156	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Support	- / -	1 / 1.359	- / 1.336	- / 0.621	- / -	- / 0.621	- / -	- / -	- / -	- / -	- / -	- / -
Installation												

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 **P-1 Line Item Number / Title:** H06000 / H-60 **Modification Number / Title:** 8856 / Block 162

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

Models of Systems Affected: HH-60G **Modification Type:** Service Life Extension **Related RDT&E PEs:** 0207224F, 0207228F

Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Modification Item 1 of 2: ACSU Kits	- / -	23 / 3.565	0 / 0.000	22 / 3.410	- / -	22 / 3.410	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 2: Obsolescence Kit	- / -	- / -	- / -	13 / 3.749	- / -	13 / 3.749	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	- / -	23 / 3.565	0 / -	35 / 7.159	- / -	35 / 7.159	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	43.929	1.336	15.945	0.000	15.945	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8856 / Block 162

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

Manufacturer Information

Manufacturer Name: Rockwell Collins	Manufacturer Location: IA
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 9

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	23 ⁽¹⁾ / 3.565	0 / 0.000	22 / 3.410	- / -	22 / 3.410	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	23 / 3.565	0 / 0.000	22 / 3.410	- / -	22 / 3.410	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	0	-	-	-	0	5	6	6	6	5	6	5	6	4	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	0	65
Out	0	-	-	-	0	0	5	6	6	6	5	6	5	6	4	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	0	65

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8856 / Block 162

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

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 9

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Oct 2017				
Delivery Dates			Jul 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	13 / 3.749	- / -	13 / 3.749	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	13 / 3.749	- / -	13 / 3.749	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	2	2	3	3	4	5	5	5	4	4	4	4	4	4	3	3	23	95
Out	0	-	-	-	-	-	-	-	-	-	1	6	6	2	2	3	3	4	5	5	5	4	4	4	4	4	4	3	3	23	95

Footnotes:
⁽¹⁾ Kits and Installs to be procured using an NATO contract. Contract structure favors procuring kits and installs simultaneously and provides quantity-based cost reduction.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8859 / DVE Sensor

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	11.700	13.085	0.000	13.085	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	11.700	13.085	0.000	13.085	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	0.000	11.700	13.085	0.000	13.085	-	-	-	-	-	-

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

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

Description:

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 (MMWR) to the HH-60G platform. The current program is adequate to procure and install DVE systems on 88 aircraft; additional funds will be needed to equip the entire 118-aircraft fleet. FY18 funds will procure an initial production batch of 28 DVE sensors/systems.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	11.700	8.915	-	8.915	-	-	-	-
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	2.220	-	2.220	-	-	-	-
AFR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	1.950	-	1.950	-	-	-	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force	Date: May 2017
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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: 8859 / DVE Sensor
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Secondary Distribution	Total Obligation Authority	0.000	11.700	13.085	0.000	13.085	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: H06000 / H-60					Modification Number / Title: 8859 / DVE Sensor			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: HH-60G				Modification Type: Capability Improvement				Related RDT&E PEs: 0207228F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	17 / 0.680	- / -	17 / 0.680	- / -	- / -	- / -	- / -	- / -	- / -	
DVE:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	6 / 0.240	- / -	6 / 0.240	- / -	- / -	- / -	- / -	- / -	- / -	
DVE:INSTALL KITS Group A (Reserve)	- / -	- / -	- / -	5 / 0.200	- / -	5 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.190	- / 1.120	- / -	- / 1.120	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
DVE:EQUIPMENT Group B (Active)	- / -	- / -	2 / 0.800	17 / 5.710	- / -	17 / 5.710	- / -	- / -	- / -	- / -	- / -	- / -	
DVE:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	6 / 1.980	- / -	6 / 1.980	- / -	- / -	- / -	- / -	- / -	- / -	
DVE:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	5 / 1.750	- / -	5 / 1.750	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.800	- / 9.440	- / -	- / 9.440	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: DVE</i>	- / -	- / -	- / 0.990	- / 10.560	- / -	- / 10.560	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 0.990	- / 10.560	- / -	- / 10.560	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / 4.510	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / -	- / -	- / 2.850	- / 2.285	- / -	- / 2.285	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / -	- / 0.020	- / 0.040	- / -	- / 0.040	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / -	- / -	- / 0.330	- / 0.200	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / 10.710	- / 2.525	- / -	- / 2.525	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1: DVE</i>	- / -	- / -	- / -	2 / 0.000	- / -	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	2 / 0.000	- / -	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	11.700	13.085	0.000	13.085	-	-	-	-	-	-	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: H06000 / H-60	Modification Number / Title: 8859 / DVE Sensor
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

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

Installation Information

Method of Implementation: Depot Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	2 / 0.000	- / -	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 0.000	- / -	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	4	4	3	3	7	8	8	7	0	80
Out	0	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	8	8	9	9	4	4	3	3	7	8	8	7	0	80

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	419.577	50.022	32.045	43.968	0.000	43.968	76.511	22.590	132.710	143.228	167.265	1,087.916
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	419.577	50.022	32.045	43.968	0.000	43.968	76.511	22.590	132.710	143.228	167.265	1,087.916
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	419.577	50.022	32.045	43.968	0.000	43.968	76.511	22.590	132.710	143.228	167.265	1,087.916

(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 beginning in 2017. 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. Two (2) additional production LREs were purchased in 2015. One was installed in Dec 2016, while the other is scheduled to install in May 2017. 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. FY18 funds will support modification efforts to include aircraft mods, enhanced weather capabilities, Mode 5/Automatic Dependent Surveillance-Broadcast (ADS-B), ASIP sensor interoperability enhancements and upgrades, other sensor enhancements, EISS interoperability enhancements and upgrades, on-board data storage, low cost modifications, retrofit support planning, change requests, other modification efforts to upgrade the Global Hawk fleet, as well as technology insertion activities in support of Better Buying Power initiatives.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
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		
<p>In FY17 this program, P-3A Mod 470012, MODE 5/ADS-B, was a new start. In FY17 this program, P-3A Mod 470013, Sensor Enhancements, was a new start. In FY17 this program, P-3A Mod 470016, ADC/AFS Refresh, was a new start. In FY17 this program, P-3A Mod 470019, Communication Interoperability/Enhancements, was a new start.</p> <p>Funding for this exhibit is contained in PE 0305220F.</p>		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	470001 / GH Aircraft Mods (Capability Improvement)				- / 391.606	- / 4.715	- / 1.083	- / 1.170	- / -	- / 1.170
P-40a***	470003 / GH Ground Station Mods (Capability Improvement)				- / 15.523	- / -	- / -	- / -	- / -	- / -
P-40a***	470008 / Enhanced Weather Capability (Capability Improvement)				- / -	- / 5.832	- / 7.599	- / 3.350	- / -	- / 3.350
P-40a***	470009 / ASIP Increment I (Capability Improvement)				- / -	- / 34.108	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a***	470010 / SAR (Capability Improvement)				- / -	- / 2.133	- / 2.418	- / -	- / -	- / -
P-40a***	470011 / ASIP Install/Calibration (Capability Improvement)				- / 12.448	- / -	- / -	- / -	- / -	- / -
P-40a***	470012 / MODE 5/ADS-B (Capability Improvement)				- / -	- / -	- / 1.205	- / 1.338	- / -	- / 1.338
P-40a***	470014 / R&M Enhancements (Reliability & Maintainability)				- / -	- / 1.234	- / 1.634	- / -	- / -	- / -
P-40a***	470016 / ADC/AFS Refresh (Capability Improvement)				- / -	- / -	- / 1.835	- / 2.070	- / -	- / 2.070
P-40a***	470019 / Communication Interoperability/Enhancements (Capability Improvement)				- / -	- / -	- / 3.000	- / 0.000	- / -	- / 0.000
P-40a***	470020 / EISS Enhancements (Capability Improvement)				- / -	- / -	- / -	- / 3.820	- / -	- / 3.820
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / 2.000	- / 2.000	- / 2.000	- / -	- / 2.000
P-3a	470013 / Sensor Enhancements (Capability Improvement)				- / -	- / -	- / 11.271	- / 12.680	- / 0.000	- / 12.680
P-3a	470021 / ASIP Increment II (Capability Improvement)				- / -	- / -	- / 0.000	- / 17.540	- / 0.000	- / 17.540
P-40	Total Gross/Weapon System Cost				- / 419.577	- / 50.022	- / 32.045	- / 43.968	- / 0.000	- / 43.968

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	470001 / GH Aircraft Mods (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470003 / GH Ground Station Mods (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470008 / Enhanced Weather Capability (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470009 / ASIP Increment I (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470010 / SAR (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470011 / ASIP Install/Calibration (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470012 / MODE 5/ADS-B (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470014 / R&M Enhancements (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470016 / ADC/AFS Refresh (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470019 / Communication Interoperability/Enhancements (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	470020 / EISS Enhancements (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	470013 / Sensor Enhancements (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	470021 / ASIP Increment II (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40	Total Gross/Weapon System Cost				- / 76.511	- / 22.590	- / 132.710	- / 143.228	- / 167.265	- / 1,087.916

*** 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: FY 2018 Air Force	Date: May 2017
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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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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	11.271	12.680	0.000	12.680	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	11.271	12.680	0.000	12.680	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	11.271	12.680	0.000	12.680	-	-	-	-	-	-

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

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

Description:

This modification program includes: the purchase and installation of a total of seventeen (17) ISR Payload Adapters (IPAs), 10 band sensor upgrades, sensor image quality improvements, and interoperability/reliability/maintainability enhancements.

Requirement source: AF 1067.

-Projected MS-177 schedule-

Estimated Developmental Test & Evaluation (DTE): May - Aug 2017

Estimated Operational Utility Evaluation (OUE): Oct - Nov 2017

Estimated Full Operational Capability (FOC): 2019

Milestone/Development Status

The Sensor Enhancement program is currently in the development phase. MS-B was approved in Oct 2015.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS				Modification Number / Title: 470013 / Sensor Enhancements				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: RQ-4			Modification Type: Capability Improvement				Related RDT&E PEs: 0305220F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	- / 31.215	- / 5.000	- / -	- / 5.000	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 2: Grp A Install Kits												
A Kits												
Recurring												
Grp A Install Kits:INSTALL KITS Group A (Active)	- / -	- / -	6 / 0.624	6 / 0.900	- / -	6 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.624	- / 0.900	- / -	- / 0.900	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Grp A Install Kits</i>	- / -	- / -	- / 0.624	- / 0.900	- / -	- / 0.900	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 2: Grp B Equipment (3)												
B Kits												
Recurring												
Grp B Equipment:EQUIPMENT Group B (Active)	- / -	- / -	6 / 10.147	6 / 11.100	- / -	6 / 11.100	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / 10.147	- / 11.100	- / -	- / 11.100	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Grp B Equipment (3)</i>	- / -	- / -	- / 10.147	- / 11.100	- / -	- / 11.100	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 10.771	- / 12.000	- / -	- / 12.000	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 2 of 2: Grp B Equipment (3)												
<i>Subtotal: Installation</i>	- / -	- / -	6 / 0.500	6 / 0.680	- / -	6 / 0.680	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	-	11.271	12.680	0.000	12.680	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS			Modification Number / Title: 470013 / Sensor Enhancements	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 2: Grp A Install Kits							
Manufacturer Information							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Palmdale, California			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 1			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Aug 2017	Aug 2018				
Delivery Dates		Sep 2017	Sep 2018				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS	Modification Number / Title: 470013 / Sensor Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 2 of 2: Grp B Equipment (3)

Manufacturer Information

Manufacturer Name: Northrop Grumman Manufacturer Location: Palmdale, California

Administrative Leadtime (in Months): 10 Production Leadtime (in Months): 1

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Aug 2017	Aug 2018				
Delivery Dates		Sep 2017	Sep 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	6 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	6 / 0.680	- / -	6 / 0.680	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	6 / 0.500	6 / 0.680	- / -	6 / 0.680	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	0	0	0	6	0	0	0	6	0	0	0	5	-	-	-	-	-	-	-	-	-	-	-	-	0	17
Out	0	-	-	-	-	0	0	0	6	0	0	0	6	0	0	0	5	-	-	-	-	-	-	-	-	-	-	-	-	0	17

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS	Modification Number / Title: 470021 / ASIP Increment II

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	0.000	17.540	0.000	17.540	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	0.000	17.540	0.000	17.540	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	0.000	17.540	0.000	17.540	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 470021, ASIP Increment II, is a new start. Airborne Signals Intelligence Payload (ASIP) Increment II expands Communications Intelligence (COMINT) and Electronic Intelligence (ELINT) frequency range, reduces special signals bandwidth, and decreases mission loading time via a new cryptor system. The ASIP Program Office (AFLCMC/WINS) is responsible for the development while the RQ-4B Program Office (AFLCMC/WIG) is responsible for the integration, flight testing, and fielding. This is a follow-on to the ASIP baseline program in compliance with Signal Intelligence (SIGINT) Capability Working Group priorities. ASIP Increment 2 is comprised of two separate builds - Builds A & B. Build A is scheduled to begin in FY18 with Build B projected for an FY22 start date. The time gap between the two builds is primarily due to program priorities. Build A is higher priority and will have lower development risk. The remaining higher risk requirements will be captured with Build B.

This program involves enhancements to Global Hawk Airborne Signals Intelligence Payload (ASIP) sensor baseline; requires hardware and software changes.

This retrofit includes upgrade kits and installs on the following:

Build A - Block 30M: twenty-one (21) aircraft and seven (7) spares.

Build B - Block 30M: seven (7) aircraft. Additional quantities will be captured in future POM cycles.

Requirement source: AF 1067

Estimated DT completion: Sep 2018

Estimated OTE: Jan 2019

Milestone/Development Status

AFLCMC/WINS program office will perform development. Engineering flights are scheduled to begin in Feb 18, with DT finishing up in Sep 18 and a 53rd Test and Evaluation Group led FDE shortly after DT ends.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS				Modification Number / Title: 470021 / ASIP Increment II				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: RQ-4				Modification Type: Capability Improvement				Related RDT&E PEs: 0305220F				
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
RDT&E PE #												
0305220F	- / -	- / -	- / -	- / 2.950	- / -	- / 2.950	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 2: EQUIPMENT												
B Kits												
Recurring												
EQUIPMENT:EQUIPMENT Group B (Active)	- / -	- / -	- / -	14 / 6.490	- / -	14 / 6.490	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 6.490	- / -	- / 6.490	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: EQUIPMENT</i>	- / -	- / -	- / -	- / 6.490	- / -	- / 6.490	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 2: INSTALL KITS												
A Kits												
Recurring												
INSTALL KITS:INSTALL KITS Group A (Active)	- / -	- / -	- / -	14 / 0.811	- / -	14 / 0.811	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.811	- / -	- / 0.811	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: INSTALL KITS</i>	- / -	- / -	- / -	- / 0.811	- / -	- / 0.811	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 7.301	- / -	- / 7.301	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
Change Orders	- / -	- / -	- / -	- / 3.673	- / -	- / 3.673	- / -	- / -	- / -	- / -	- / -	- / -
Mod of Spares	- / -	- / -	- / -	7 / 4.056	- / -	7 / 4.056	- / -	- / -	- / -	- / -	- / -	- / -
OTHER GOVT	- / -	- / -	- / -	- / 1.810	- / -	- / 1.810	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / -	- / -	7 / 9.539	- / -	7 / 9.539	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 2 of 2: INSTALL KITS												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	14 / 0.700	- / -	14 / 0.700	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	-	0.000	17.540	0.000	17.540	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS			Modification Number / Title: 470021 / ASIP Increment II	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 2: EQUIPMENT							
Manufacturer Information							
Manufacturer Name: Northrop Grumman				Manufacturer Location: Palmdale, CA			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 1			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Jul 2018				
Delivery Dates			Aug 2018				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HAWK00 / RQ-4 MODS	Modification Number / Title: 470021 / ASIP Increment II
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 2 of 2: INSTALL KITS

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, CA
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 1

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Jul 2018				
Delivery Dates			Aug 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	14 / 0.700	- / -	14 / 0.700	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	14 / 0.700	- / -	14 / 0.700	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	0	0	0	14	0	0	0	7	-	-	-	-	-	-	-	-	-	-	3	4	0	28
Out	0	-	-	-	-	-	-	-	-	0	0	0	14	0	0	0	7	-	-	-	-	-	-	-	-	-	-	3	4	0	28

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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
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Line Item MDAP/MAIS Code: 257

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	66.013	27.350	51.317	67.674	153.080	220.754	38.264	6.127	4.249	4.333	337.664	756.071
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	66.013	27.350	51.317	67.674	153.080	220.754	38.264	6.127	4.249	4.333	337.664	756.071
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	66.013	27.350	51.317	67.674	153.080	220.754	38.264	6.127	4.249	4.333	337.664	756.071

(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. This program element may include necessary civilian pay expenses required to manage, execute, and deliver HC/MC-130 weapon system capability.

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. This funding request will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity. The designed service life is 35 years and the average service life remaining is 32.2 years.

The modifications budgeted in FY18 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.

FY16 funding totals include \$5.7M for Overseas Contingency Operations.
 FY17 funding totals include \$13.550M for Overseas Contingency Operations.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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

Line Item MDAP/MAIS Code: 257

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	8634 / HC-130J Common Configuration (Capability Improvement)				- / 25.252	- / 6.199	- / 3.712	- / 6.479	- / -	- / 6.479
P-40a***	8635 / HC-130J Personnel Locator System (Capability Improvement)				- / 10.871	- / -	- / 7.250	- / 0.000	- / -	- / 0.000
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***	8640 / HC-130J Countermeasures Dispenser System Rapid Dispense (Capability Improvement)				- / -	- / -	- / 9.300	- / -	- / 4.980	- / 4.980
P-40a***	8648 / ADS-B out Acceleration (Capability Improvement)				- / -	- / -	- / -	- / 2.530	- / -	- / 2.530
P-40a***	8656 / Radar (Capability Improvement)				- / -	- / -	- / -	- / 11.200	- / -	- / 11.200
P-40a***	99999X / Low Cost Modifications (Safety)				- / 8.147	- / 0.000	- / 1.987	- / 1.943	- / -	- / 1.943
P-3a	8632 / MC-130J Increment 2 (Capability Improvement)				- / 9.243	- / 15.461	- / 12.257	- / 14.418	- / 0.000	- / 14.418
P-3a	8636 / HC-130J Situational Awareness (Capability Improvement)				- / 12.500	- / 0.000	- / 16.811	- / 27.612	- / 0.000	- / 27.612
P-3a	8642 / (AbMN) Air borne Mission Networking (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 14.692	- / 0.000	- / 14.692
P-3a	8650 / Advanced Threat Warning System (ATW) (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 0.000	- / 29.500	- / 29.500
P-3a	8652 / (RFCM) Radio Frequency Countermeasures (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 0.000	- / 107.400	- / 107.400
P-40	Total Gross/Weapon System Cost				- / 66.013	- / 27.350	- / 51.317	- / 67.674	- / 153.080	- / 220.754

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	8634 / HC-130J Common Configuration (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8635 / HC-130J Personnel Locator System (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8638 / HC-130J Variable Speed Drogue (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8639 / HC-130J Wireless Intercom (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8640 / HC-130J Countermeasures Dispenser System Rapid Dispense (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8648 / ADS-B out Acceleration (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8656 / Radar (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Safety)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8632 / MC-130J Increment 2 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8636 / HC-130J Situational Awareness (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8642 / (AbMN) Air borne Mission Networking (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8650 / Advanced Threat Warning System (ATW) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Line Item MDAP/MAIS Code: 257

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	8652 / (RFCM) Radio Frequency Countermeasures (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 38.264	- / 6.127	- / 4.249	- / 4.333	- / 337.664	- / 756.071

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8632 / MC-130J Increment 2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.243	15.461	12.257	14.418	0.000	14.418	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.243	15.461	12.257	14.418	0.000	14.418	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.243	15.461	12.257	14.418	0.000	14.418	-	-	-	-	-	-

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

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

Description:

The MC-130J Increment 2 modification brings ten MC-130J Increment 1 aircraft up to the baseline Increment 2 configuration. Current funding completes the total requirement of ten aircraft modifications. Increment 2 includes but is not limited to adding LAIRCM Group A provisions, crashworthy loadmaster seats, increased electrical power, and installation of specific enhanced situational awareness modifications to MC-130J modifications. 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. This funding request will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity Note: Milestone dates are for kit delivery and installation schedule dates are for installation on aircraft. It also provides for the installation of specific special operation modifications to MC-130J 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: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications				Modification Number / Title: 8632 / MC-130J Increment 2				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: MC-130J			Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Inc 1-2												
B Kits												
Recurring												
Inc 1-2:EQUIPMENT Group B (Active)	3 / 7.313	7 / 9.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 7.313	- / 9.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Inc 1-2</i>	- / 7.313	- / 9.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / 7.313	- / 9.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
Change Orders	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
SIM/TRAINER	1 / 0.528	1 / 4.118	2 / 9.655	1 / 4.111	- / -	1 / 4.111	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	1 / 0.528	1 / 4.118	2 / 9.655	1 / 4.111	- / -	1 / 4.111	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1:</i> Inc 1-2	1 / 1.402	1 / 1.410	2 / 2.602	6 / 10.307	- / -	6 / 10.307	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	1 / 1.402	1 / 1.410	2 / 2.602	6 / 10.307	- / -	6 / 10.307	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	9.243	15.461	12.257	14.418	0.000	14.418	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8632 / MC-130J Increment 2

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

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Marietta GA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 1.402	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	1 / 1.410	2 / 2.602	6 / 10.307	- / -	6 / 10.307	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 1.402	1 / 1.410	2 / 2.602	6 / 10.307	- / -	6 / 10.307	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	1	-	-	1	-	-	-	-	1	1	-	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0	10
Out	1	-	-	1	-	-	-	-	1	1	-	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0	10

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8636 / HC-130J Situational Awareness
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	12.500	0.000	16.811	27.612	0.000	27.612	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	12.500	0.000	16.811	27.612	0.000	27.612	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	12.500	0.000	16.811	27.612	0.000	27.612	-	-	-	-	-	-

(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.

This funding request will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.

Starting in FY17 this modification encompasses Video Data Link and Special Radio Communication requirements that were previously captured under a separate modification #8637.

Milestone/Development Status

N/A

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5					P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications					Modification Number / Title: 8636 / HC-130J Situational Awareness			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: HC-130J				Modification Type: Capability Improvement				Related RDT&E PEs: 0207224F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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)	19 / 0.001	- / -	2 / 1.690	11 / 0.001	- / -	11 / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 0.001	- / -	- / 1.690	- / 0.001	- / -	- / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
Situational Awareness:EQUIPMENT Group B (Active)	- / -	- / -	2 / 1.690	11 / 10.456	- / -	11 / 10.456	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 1.690	- / 10.456	- / -	- / 10.456	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Situational Awareness</i>	- / 0.001	- / -	- / 3.380	- / 10.457	- / -	- / 10.457	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.001	- / -	- / 3.380	- / 10.457	- / -	- / 10.457	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 8.816	- / -	- / 6.100	- / 6.155	- / -	- / 6.155	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / 3.563	- / -	- / 6.910	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 12.379	- / -	- / 13.010	- / 6.155	- / -	- / 6.155	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Modification Item 1 of 1: Situational Awareness</i>	0 / 0.120	19 / 0.000	2 / 0.421	11 / 11.000	- / -	11 / 11.000	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / 0.120	19 / 0.000	2 / 0.421	11 / 11.000	- / -	11 / 11.000	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	12.500	0.000	16.811	27.612	0.000	27.612	-	-	-	-	-	-	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8636 / HC-130J Situational Awareness

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

Manufacturer Information

Manufacturer Name: Lockheed Martin Aero				Manufacturer Location: Marietta, GA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 4			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Aug 2017	Jan 2018				
Delivery Dates		Dec 2017	May 2018				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.120	19 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	2 / 0.421	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	11 / 11.000	- / -	11 / 11.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.120	19 / 0.000	2 / 0.421	11 / 11.000	- / -	11 / 11.000	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	19	-	-	-	-	-	-	1	1	2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	0	32
Out	0	-	-	-	19	-	-	-	-	-	-	-	1	1	-	2	3	3	3	-	-	-	-	-	-	-	-	-	-	0	32

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8642 / (AbMN) Air borne Mission Networking

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	14.692	0.000	14.692
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	14.692	0.000	14.692
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	14.692	0.000	14.692

(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 8642, (AbMN) Air borne Mission Networking, is a new start. Equips the MC-130J with the service common hardware to satisfy AFSOC's communications tactical data link capability requirements as stated in the USSOCOM Airborne Mission Networking Capabilities Development Document, dated 6 January 2016. The hardware will provide Beyond Line of Site, Line of Site, and Full Motion Video datalink capabilities. The funding will provide service common hardware for up to four systems kits that will be permanently integrated in the MC-130J aircraft. This funding request will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity. This effort includes but is not limited to kits, training, tech data, RSPs, and other government costs.

Milestone/Development Status

N/A

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8642 / (AbMN) Air borne Mission Networking

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: MC-130J	Modification Type: Capability Improvement	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement						
<i>Modification Item 1 of 1:</i> AbMNGroup B						
B Kits						
Recurring						
AbMNGroup B:EQUIPMENT Group B (Active)	- / -	- / -	- / -	4 / 14.692	- / -	4 / 14.692
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 14.692	- / -	- / 14.692
<i>Subtotal: AbMNGroup B</i>	- / -	- / -	- / -	- / 14.692	- / -	- / 14.692
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 14.692	- / -	- / 14.692
Installation						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	14.692	0.000	14.692

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	
		Modification Number / Title: 8642 / (AbMN) Air borne Mission Networking	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 1: AbMNGroup B			
Manufacturer Information			
Manufacturer Name: Lockheed Martin		Manufacturer Location: Marietta, GA	
Administrative Leadtime (in Months): 3		Production Leadtime (in Months): 5	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates			Jan 2018
Delivery Dates			Jun 2018
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 0	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8650 / Advanced Threat Warning System (ATW)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	29.500	29.500	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	29.500	29.500	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	29.500	29.500	-	-	-	-	-	-

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

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

Description:

This program, P-3A Mod 8650, Advanced Threat Warning System (ATW) CSN, is a new start. The HC-130J Advanced Threat Warning Sensors (ATW) adds capability to detect/defeat the latest generation Infrared (IR) surface to air threats. ATW meets the operationally-required modification to current MWS used in theater in direct support of combat operations. Funding will be used to install ATW on HC-130Js and includes but is not limited to training and trainer costs, support equipment, and associated requirements.

Milestone/Development Status

N/A

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8650 / Advanced Threat Warning System (ATW)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: HC-130J	Modification Type: Capability Improvement	Related RDT&E PEs: 0207224F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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: ATW</i>												
A Kits												
Recurring												
ATW:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	15 / 1.000	15 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / 1.000	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
ATW:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	15 / 21.500	15 / 21.500	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / 21.500	- / 21.500	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: ATW</i>	- / -	- / -	- / -	- / -	- / 22.500	- / 22.500	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / 22.500	- / 22.500	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING												
SIM/TRAINER	- / -	- / -	- / -	- / -	- / 12.000	- / 12.000	- / -	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP	- / -	- / -	- / -	- / -	1 / 1.000	1 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / -	2 / 5.500	2 / 5.500	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1: ATW</i>												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	0 / 0.000	15 / 1.500	15 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	0.000	29.500	29.500	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8650 / Advanced Threat Warning System (ATW)

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

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Marietta, GA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Apr 2018				
Delivery Dates			Apr 2019				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	15 / 1.500	15 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	0 / 0.000	15 / 1.500	15 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	-	0	15
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	3	-	-	-	-	-	-	-	-	-	-	-	0	15

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8652 / (RFCM) Radio Frequency Countermeasures

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	107.400	107.400	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	107.400	107.400	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	107.400	107.400	-	-	-	-	-	-

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

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

Description:

This program, P-3A Mod 8652, (RFCM) Radio Frequency Countermeasures, is a new start.

The HC-130J Radio Frequency Countermeasures (RFCM) system electronically suppress or counters threats organically in order to access contested environments enabling area penetration to support safe prosecution of the Combat Search and Rescue (CSAR) mission. Funding will be used to install RFCM on HC-130Js and includes but is not limited to training, support equipment, and associated requirements.

FY18 OCO funding provides the aforementioned capabilities and 15 Group A kits and installs, and 8 Group B kits allowing ACC a roll-on, roll-of capability required for deployed aircraft.

Milestone/Development Status

N/A

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8652 / (RFCM) Radio Frequency Countermeasures

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: HC-130J	Modification Type: Capability Improvement	Related RDT&E PEs: 0207224F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> RFCM												
A Kits												
Recurring												
RFCM:INSTALL KITS Group A (Active)	- / -	- / -	- / -	- / -	15 / 63.400	15 / 63.400	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / 63.400	- / 63.400	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
RFCM:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	8 / 28.400	8 / 28.400	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / 28.400	- / 28.400	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: RFCM</i>	- / -	- / -	- / -	- / -	- / 91.800	- / 91.800	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / 91.800	- / 91.800	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / 11.300	- / 11.300	- / -	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP	- / -	- / -	- / -	- / -	- / 13.500	- / 13.500	- / -	- / -	- / -	- / -	- / -	- / -
SIM/TRAINER	- / -	- / -	- / -	- / -	1 / 3.000	1 / 3.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / -	1 / 7.800	1 / 7.800	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1:</i> RFCM												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	0 / 0.000	15 / 7.800	15 / 7.800	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	0.000	107.400	107.400	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications	Modification Number / Title: 8652 / (RFCM) Radio Frequency Countermeasures

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

Manufacturer Information

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

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Apr 2018				
Delivery Dates			Apr 2019				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	15 / 7.800	15 / 7.800	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	0 / 0.000	15 / 7.800	15 / 7.800	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	-	0	15
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	0	15

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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, 0207701F, 0303001F, 0303601F, 0401897F **Other Related Program Elements:** 0207224F, 0207249F, 0207701F, 0303601F, 0401897F

Line Item MDAP/MAIS Code: 199

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	303.769	42.475	41.386	59.068	10.381	69.449	48.700	71.054	70.118	17.565	0.100	664.616
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	303.769	42.475	41.386	59.068	10.381	69.449	48.700	71.054	70.118	17.565	0.100	664.616
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	303.769	42.475	41.386	59.068	10.381	69.449	48.700	71.054	70.118	17.565	0.100	664.616

(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.

Mod 8669 funds modifications to the F-16 Mission Training Centers (MTCs) (Simulators) driven by upgrades to the Operational Flight Program (OFP). Mods 8670 funds 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.

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

FY17 funding totals include \$7.5M for Overseas Contingency Operations.

Funding for this exhibit contained in PE 0207224F, 0207249F, 0207701F, 0303601F, 0401897F.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	42.475	41.386	59.068	10.381	69.449	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	-	0.000	0.000	0.000	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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, 0207701F, 0303001F, 0303601F, 0401897F	Other Related Program Elements: 0207224F, 0207249F, 0207701F, 0303601F, 0401897F
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Line Item MDAP/MAIS Code: 199

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Secondary Distribution	Total Obligation Authority	42.475	41.386	59.068	10.381	69.449	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

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, 0207701F, 0303001F, 0303601F, 0401897F **Other Related Program Elements:** 0207224F, 0207249F, 0207701F, 0303601F, 0401897F

Line Item MDAP/MAIS Code: 199

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	4501 / EHF SATCOM (Capability Improvement)				- / 37.286	- / 0.001	- / -	- / -	- / -	- / -
P-40a***	8669 / Full Combat Mission Training (Capability Improvement)				- / 58.374	- / 2.459	- / 1.694	- / 13.877	- / -	- / 13.877
P-40a***	8670 / MAF Training (Capability Improvement)				- / 28.743	- / -	- / 29.525	- / 1.172	- / -	- / 1.172
P-40a***	8733 / Battlefield ABN Comm Node (BACN) (Other)				- / 1.990	- / -	- / 7.500	- / -	- / -	- / -
P-40a***	99999J / MISCELLANEOUS LOW COSTS MODS (Combat Developments) (Other)				- / 142.259	- / 0.128	- / 0.138	- / 0.162	- / -	- / 0.162
P-40a***	HH-60U / HH-60U (Capability Improvement)				- / -	- / 1.900	- / 1.708	- / 0.000	- / 0.000	- / 0.000
P-3a	8674 / ATP upgrade Legacy to SE (Other)				- / 35.117	- / 1.033	- / 0.821	- / 28.735	- / 0.000	- / 28.735
P-3a	8675 / ATP-SE Technology Insertion (Capability Improvement)				- / 0.000	- / 36.954	- / 0.000	- / 15.122	- / 0.000	- / 15.122
P-3a	8735 / DAS000 (ROBE) (Capability Improvement)				- / -	- / 0.000	- / 0.000	- / 0.000	- / 10.381	- / 10.381
P-40	Total Gross/Weapon System Cost				- / 303.769	- / 42.475	- / 41.386	- / 59.068	- / 10.381	- / 69.449

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	4501 / EHF SATCOM (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8669 / Full Combat Mission Training (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8670 / MAF Training (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8733 / Battlefield ABN Comm Node (BACN) (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999J / MISCELLANEOUS LOW COSTS MODS (Combat Developments) (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	HH-60U / HH-60U (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8674 / ATP upgrade Legacy to SE (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8675 / ATP-SE Technology Insertion (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8735 / DAS000 (ROBE) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 48.700	- / 71.054	- / 70.118	- / 17.565	- / 0.100	- / 664.616

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8674 / ATP upgrade Legacy to SE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	35.117	1.033	0.821	28.735	0.000	28.735
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	35.117	1.033	0.821	28.735	0.000	28.735
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	35.117	1.033	0.821	28.735	0.000	28.735

(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 LITENING and Sniper ATP contracts will address requirements centered on new capability as well as hardware and software upgrades necessary to align with the most current pod configuration. This would include host platform integration and test, modification of spares, correction of service life deficiencies, technical orders, repair data, studies, support of depot repair requirements and all modifications necessary to capitalize on the most current required capability. In addition, this requirement provides for program management support. Funds may be used to address emerging and short-notice Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

Quantities will vary based on funding, negotiated prices and COCOM requirements.

Milestone/Development Status

Milestone/Development Status

Legacy will incorporate SE capabilities already developed through the SE contract.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	1.033	0.821	28.735	-	28.735
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	1.033	0.821	28.735	0.000	28.735

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: OTHACF / Other Aircraft		Modification Number / Title: 8674 / ATP upgrade Legacy to SE	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: A-10, F-15C, F-15E, F-16, B-1, B-52		Modification Type: Other		Related RDT&E PEs: 0207249F		
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Qty (Each) / Total Cost (\$ M)	Qty (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: Upgrade Kit</i>						
A Kits						
Recurring						
Upgrade Kit:INSTALL KITS Group A (Active)	75 / 33.559	2 / 1.033	2 / 0.821	190 / 27.305	- / -	190 / 27.305
Upgrade Kit:INSTALL KITS Group A (Reserve)	0 / 0.000	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 33.559	- / 1.033	- / 0.821	- / 27.305	- / -	- / 27.305
<i>Subtotal: Upgrade Kit</i>	- / 33.559	- / 1.033	- / 0.821	- / 27.305	- / -	- / 27.305
<i>Subtotal: Procurement, All Modification Items</i>	- / 33.559	- / 1.033	- / 0.821	- / 27.305	- / -	- / 27.305
Support (All Modification Items)						
PMA - Contractor Services	- / 0.386	- / -	- / -	- / 0.860	- / -	- / 0.860
PMA - Other Gov't Costs	- / 1.172	- / -	- / -	- / 0.570	- / -	- / 0.570
<i>Subtotal: Support</i>	- / 1.558	- / -	- / -	- / 1.430	- / -	- / 1.430
Installation						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)	35.117	1.033	0.821	28.735	0.000	28.735

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: OTHACF / Other Aircraft	
		Modification Number / Title: 8674 / ATP upgrade Legacy to SE	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 1: Upgrade Kit			
Manufacturer Information			
Manufacturer Name: Lockheed Martin		Manufacturer Location: Orlando, FL	
Administrative Leadtime (<i>in Months</i>): 1		Production Leadtime (<i>in Months</i>): 12	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates	Mar 2016	Mar 2017	Mar 2018
Delivery Dates	Mar 2017	Mar 2018	Mar 2019
Manufacturer Name: Northrop Grumman		Manufacturer Location: Rolling Meadows, IL	
Administrative Leadtime (<i>in Months</i>): 1		Production Leadtime (<i>in Months</i>): 12	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates	Mar 2016	Mar 2017	Mar 2018
Delivery Dates	Mar 2017	Mar 2018	Mar 2019
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 1069	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8675 / ATP-SE Technology Insertion

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	36.954	0.000	15.122	0.000	15.122	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	36.954	0.000	15.122	0.000	15.122	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	36.954	0.000	15.122	0.000	15.122	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This effort improves the critical capability of Combat Identification (CID) by adding the radio-based CID (RBCI) technology. The LITENING and Sniper ATP contracts will address requirements centered on hardware and software upgrades and associated host platform integration (to include necessary test), modification of spares, correction of service life deficiencies, technical orders, repair data, studies and support of organic depot repair requirements. Modification of legacy pods to ATP-SE standards may be necessary for modifications. In addition, this requirement provides for program management support. Quantities will vary based on negotiated prices. Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

Milestone/Development Status

Upgrades will incorporate capabilities developed by industry and through the SE contract.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	36.954	-	15.122	-	15.122	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	36.954	0.000	15.122	0.000	15.122	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8675 / ATP-SE Technology Insertion
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: A-10, F-15C, F-15E, F-16, B-1, B-52 **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0207249F

Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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> RBCI												
A Kits												
Recurring												
RBCI:INSTALL KITS Group A (Active)	- / -	13 / 36.954	- / -	152 / 13.302	- / -	152 / 13.302	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / 36.954	- / -	- / 13.302	- / -	- / 13.302	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: RBCI</i>	- / -	- / 36.954	- / -	- / 13.302	- / -	- / 13.302	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 36.954	- / -	- / 13.302	- / -	- / 13.302	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
GROUP A: TOTAL NONRECURRING	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
<i>Modification Item 1 of 1:</i> RBCI												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	13 / 1.820	- / -	13 / 1.820	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	36.954	0.000	15.122	0.000	15.122	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 **P-1 Line Item Number / Title:** OTHACF / Other Aircraft **Modification Number / Title:** 8675 / ATP-SE Technology Insertion

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

Modification Item 1 of 1: RBCI

Manufacturer Information

Manufacturer Name: Lockheed Martin Manufacturer Location: Orlando, FL

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 12

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jun 2017		Jun 2018				
Delivery Dates	Jun 2018		Jun 2019				

Manufacturer Name: Northrop Grumman Manufacturer Location: Rolling Meadows, IL

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 12

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jun 2017		Jun 2018				
Delivery Dates	Jun 2018		Jun 2019				

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	13 / 1.820	- / -	13 / 1.820	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	13 / 1.820	- / -	13 / 1.820	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	-	-	13	-	-	-	38	38	38	38	36	36	36	36	36	36	36	36	36	36	134	659
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	38	38	38	38	36	36	36	36	36	36	36	36	242	659

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: OTHACF / Other Aircraft	Modification Number / Title: 8735 / DAS000 (ROBE)

ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	10.381	10.381
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	10.381	10.381
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	10.381	10.381
<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 8735, DAS000 (ROBE), is a new start. Roll-on Beyond-Line-of-Sight Enhancement (ROBE) is a beyond line-of-sight (BLOS) gateway and force multiplier enabling decision makers to leverage decision-quality information to increase predictive battlespace awareness, shorten the F2T2EA decision cycle, facilitate precision attack, and compress the sensor to shooter kill chain. It provides a robust, secure means to exchange Link 16 and Situation Awareness Data Link (SADL) Line-of-Sight (LOS) to BLOS recipients.

ROBE is an ancillary capability with the aerial refueling mission. ROBE is a high demand asset supporting Joint Warfighters in the combat theater. Additional ROBE B-kits are needed in theater, due to increasing Tactical Data Link mission requirements and have proven a valuable asset to geographically separated ground and airborne assets - specifically, special operations, troops in contact, and strike/targeting missions.

Milestone/Development Status

Developmental work is complete. Roll-on Beyond-Line-of-Sight Enhancement (ROBE) is a beyond line-of-sight gateway and is currently fielded/flown on Air Mobility Command aircraft in the combat theater.

All development activities to support ROBE Spiral 2 KC-135 integration are complete. 40 KC-135's were modified with Group A Spiral 2 hardware and 20 Group B Spiral 2 ROBE kits have already been fielded. IOC was declared April 2006. Development is complete.

ROBE Spiral 3 B Kits (tech refresh) are built. Testing is complete. Waiting on 605 Test Evaluation Squadron (TES) fielding recommendation and Authority to Operate (ATO) to begin fielding.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	-	10.381	10.381
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	10.381	10.381

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: OTHACF / Other Aircraft		Modification Number / Title: 8735 / DAS000 (ROBE)	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: KC-135, KC-46A		Modification Type: Capability Improvement		Related RDT&E PEs:		
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Qty (Each) / Total Cost (\$ M)	Qty (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: ROBE</i>						
B Kits						
Recurring						
ROBE:EQUIPMENT Group B (Active)						
	- / -	- / -	- / -	- / -	11 / 10.381	11 / 10.381
<i>Subtotal: Recurring</i>						
	- / -	- / -	- / -	- / -	- / 10.381	- / 10.381
<i>Subtotal: ROBE</i>						
	- / -	- / -	- / -	- / -	- / 10.381	- / 10.381
<i>Subtotal: Procurement, All Modification Items</i>						
	- / -	- / -	- / -	- / -	- / 10.381	- / 10.381
Installation						
<i>Subtotal: Installation</i>						
	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)						
	-	0.000	0.000	0.000	10.381	10.381

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: OTHACF / Other Aircraft	
		Modification Number / Title: 8735 / DAS000 (ROBE)	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 1: ROBE			
Manufacturer Information			
Manufacturer Name: Northrop Grumman Mission Systems		Manufacturer Location: San Diego, CA	
Administrative Leadtime (in Months): 1		Production Leadtime (in Months): 12	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates			Nov 2017
Delivery Dates			Nov 2018
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 0	

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	214.918	3.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	218.091
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	214.918	3.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	218.091
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	214.918	3.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	218.091

(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 131 aircraft (117 flyable, 14 not flyable) 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.

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: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0205219F	Other Related Program Elements: 0205219F
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Line Item MDAP/MAIS Code: 424

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	447.168	184.051	253.997	264.740	56.400	321.140	382.191	177.759	190.615	163.115	2,692.166	4,812.202
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	447.168	184.051	253.997	264.740	56.400	321.140	382.191	177.759	190.615	163.115	2,692.166	4,812.202
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	447.168	184.051	253.997	264.740	56.400	321.140	382.191	177.759	190.615	163.115	2,692.166	4,812.202

(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 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 to perform Intelligence, Surveillance, Reconnaissance and Target Acquisition (ISR TA) as a secondary role. In the hunter-killer role, the aircraft employs 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, but is not limited to, aircraft (including sensors), ground control station and ground support system retrofits to baseline configurations.

There are currently 167 Blk 1 and 39 Blk 5 MQ-9 aircraft totaling 179 in the inventory with an estimated designed service life of 20,000 hours. Not all 179 aircraft will receive every modification. Modification quantities will vary due to attrition and aircraft being modified by other customers. For each P-3a the number of aircraft funded with baseline modification funding is identified.

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 Synthetic Aperture Radar (SAR), GCS Blk 30, Reliability and Maintainability (R&M) enhancements, MQ-9 Upgrades, GCS Tech Refresh and Communication Enhancements.

This program will revise quantities based on updated user requirements and as funding permits. Funding may be used to address Diminishing Manufacturing Sources (DMS) and Non-Recurring Engineering (NRE) issues.

This program has associated Research, Development Test and Evaluation (RDT&E) AF funding in MQ-9 PE 0205219F.

In 2017, program 9167/MQ-9 Upgrade(Capability Improvement) was a new start.

Funding for this exhibit contained in PE 0205219F.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
PRDTB2 / MQ-9 MODS

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0205219F **Other Related Program Elements:** 0205219F

Line Item MDAP/MAIS Code: 424

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	9151 / Block 5 (Capability Improvement)				- / 7.360	- / -	- / 6.124	- / 9.670	- / -	- / 9.670
P-40a***	9154 / Lynx SAR (Capability Improvement)				- / 33.432	- / 33.432	- / 27.866	- / -	- / -	- / -
P-40a***	9159 / R&M enhancements (Reliability & Maintainability)				- / 49.800	- / 21.226	- / 3.710	- / 5.091	- / -	- / 5.091
P-40a***	99999B / MQ-9 Low Cost Mods (Reliability & Maintainability)				- / 8.000	- / 0.765	- / 2.000	- / 2.000	- / -	- / 2.000
P-3a	9152 / MQ-9 Field (Capability Improvement)				- / 180.853	- / 4.279	- / 19.340	- / 35.972	- / 0.000	- / 35.972
P-3a	9155 / GCS Blk 30 (Capability Improvement)				- / 84.113	- / 55.285	- / 16.305	- / 10.027	- / 0.000	- / 10.027
P-3a	9164 / Extended Range MQ-9 (Capability Improvement)				- / 83.610	- / 69.064	- / 33.954	- / 67.732	- / 0.000	- / 67.732
P-3a	9167 / MQ-9 Upgrade (Capability Improvement)				- / -	- / 0.000	- / 144.698	- / 134.248	- / 56.400	- / 190.648
P-40	Total Gross/Weapon System Cost				- / 447.168	- / 184.051	- / 253.997	- / 264.740	- / 56.400	- / 321.140

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	9151 / Block 5 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9154 / Lynx SAR (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	9159 / R&M enhancements (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999B / MQ-9 Low Cost Mods (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9152 / MQ-9 Field (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9155 / GCS Blk 30 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9164 / Extended Range MQ-9 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	9167 / MQ-9 Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 382.191	- / 177.759	- / 190.615	- / 163.115	- / 2,692.166	- / 4,812.202

*** 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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9152 / MQ-9 Field

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	180.853	4.279	19.340	35.972	0.000	35.972	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	180.853	4.279	19.340	35.972	0.000	35.972	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	180.853	4.279	19.340	35.972	0.000	35.972	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This modification is a portion of the field retrofit program that upgrades MQ-9 aircraft with enhanced capabilities and utilizes a field team to perform the modification. Upgrades that are part of this modification, but is not limited to, 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), Selective Availability Anti-Spoofing Module (SAASM), Cast sump, fuel bladders, Barrett Asymmetric Digital Data Link Computers (BADDC), Beyond Line of Site (BLOS), and Global Positioning System (GPS) splitter. The associated costs reflect all costs associated with the multiple elements of the MQ-9 field retrofits.

The quantity of aircraft for each modification varies depending on when the capability was cut into production. This program will revise quantities based on updated user requirements and as funding permits. Funding may be used to address Diminishing Manufacturing Sources (DMS) and Non-Recurring Engineering (NRE) issues.

FY18 Activities include but not limited to:

- Depot Level Installs of 26 Heavy Weight Main Landing Gear Kits*
- Modification/Installation of 24 Cast Sump/Fuel Bladders
- Modification/Installation of 36 Blk 1 BADDC (aircraft)
- Modification/Installation of 25 Blk 1 BADDC (GCS)
- Modification/Installation of 36 Blk 1 BLOS/GPS Splitter

FY17 OCO request includes \$5.068M for procurement and installation of 48 GPS splitter kits, 48 BLOS Station 7 kits, and 24 BADDC kits. Due to a documentation software limitation, installation cost of \$0.790M for the OCO funded kits are shown under Other Government Costs. Installation of 24 GPS splitter kits and 24 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: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS				Modification Number / Title: 9152 / MQ-9 Field				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: MQ-9			Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 959.356	- / 124.694	- / 151.373	- / 204.221	- / -	- / 204.221	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 1: MQ-9 Field Mods												
A Kits												
Recurring												
MQ-9 Field Mods:INSTALL KITS Group A (Active)	302 / 17.447	26 / 0.214	96 / 1.340	147 / 3.880	- / -	147 / 3.880	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 17.447	- / 0.214	- / 1.340	- / 3.880	- / -	- / 3.880	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
MQ-9 Field Mods:EQUIPMENT Group B (Active)	302 / 155.047	26 / 1.767	96 / 11.070	147 / 25.297	- / -	147 / 25.297	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 155.047	- / 1.767	- / 11.070	- / 25.297	- / -	- / 25.297	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: MQ-9 Field Mods</i>	- / 172.494	- / 1.981	- / 12.410	- / 29.177	- / -	- / 29.177	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / 172.494	- / 1.981	- / 12.410	- / 29.177	- / -	- / 29.177	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
OTHER GOVT	- / 5.439	- / 0.158	- / 0.989	- / 2.626	- / -	- / 2.626	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / 5.439	- / 0.158	- / 0.989	- / 2.626	- / -	- / 2.626	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 1: MQ-9 Field Mods	196 / 2.920	98 / 2.140	8 / 5.941	122 / 4.169	- / -	122 / 4.169	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	196 / 2.920	98 / 2.140	8 / 5.941	122 / 4.169	- / -	122 / 4.169	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	180.853	4.279	19.340	35.972	0.000	35.972	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9152 / MQ-9 Field
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: MQ-9 Field Mods

Manufacturer Information

Manufacturer Name: General Atomics-ASI Manufacturer Location: Poway, CA

Administrative Leadtime (in Months): 8 Production Leadtime (in Months): 12

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jun 2016	Jun 2017	Jun 2018				
Delivery Dates	Jun 2017	Jun 2018	Jun 2019				

Installation Information

Method of Implementation: Depot Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	196 / 2.920	98 / 2.140	8 / 5.941	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	26 / 0.950	- / -	26 / 0.950	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	96 / 3.219	- / -	96 / 3.219	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	196 / 2.920	98 / 2.140	8 / 5.941	122 / 4.169	- / -	122 / 4.169	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	196	24	25	24	25	2	2	2	2	30	31	30	31	30	30	30	30	30	30	30	30	30	30	30	30	18	15	-	-	0	817
Out	176	20	24	25	24	25	2	2	2	2	30	31	30	31	30	30	30	30	30	30	30	30	30	30	30	30	18	15	-	0	817

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9155 / GCS Blk 30

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	84.113	55.285	16.305	10.027	0.000	10.027	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	84.113	55.285	16.305	10.027	0.000	10.027	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	84.113	55.285	16.305	10.027	0.000	10.027	-	-	-	-	-	-
<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 Ground Control Station (GCS) Block 30 modernization retrofit program upgrades Fixed and Mobile GCS with new Linux processors, high definition displays, ergonomic improvements, Predator Primary Data Link (PPDL, 2nd ARC-210 radio capabilities, and Barrett Asymmetric Digital Data Link Computers (BADDCC). 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.

This modification supports all efforts required to field the Block 30 GCS capability and will revise quantities based upon user requirements and available funding. Funding may be used to address Diminishing Manufacturing Sources (DMS) and Non-Recurring Engineering (NRE) issues. Funding may be used to update simulators to current configuration.

Milestone/Development Status

GCS Block 30 Critical Design Review completed Apr 2011.

Test and evaluation was completed June 2013. Operation test was completed September 2016.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS				Modification Number / Title: 9155 / GCS Blk 30				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: MQ-9			Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 959.356	- / 124.694	- / 151.373	- / 204.221	- / -	- / 204.221	- / -	- / -	- / -	- / -	- / -	- / -
Procurement												
Modification Item 1 of 1: GCS Block 30												
A Kits												
Recurring												
GCS Block 30:INSTALL KITS Group A (Active)	22 / 6.836	12 / 4.195	18 / 0.455	12 / 0.346	- / -	12 / 0.346	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 6.836	- / 4.195	- / 0.455	- / 0.346	- / -	- / 0.346	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
GCS Block 30:EQUIPMENT Group B (Active)	22 / 57.630	12 / 37.757	18 / 4.098	12 / 3.110	- / -	12 / 3.110	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 57.630	- / 37.757	- / 4.098	- / 3.110	- / -	- / 3.110	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: GCS Block 30</i>	- / 64.466	- / 41.952	- / 4.553	- / 3.456	- / -	- / 3.456	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / 64.466	- / 41.952	- / 4.553	- / 3.456	- / -	- / 3.456	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
Change Orders	- / 1.210	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
OTHER GOVT	- / 1.687	- / 4.713	- / 0.512	- / 0.388	- / -	- / 0.388	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / 2.897	- / 4.713	- / 0.512	- / 0.388	- / -	- / 0.388	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 1: GCS Block 30												
<i>Subtotal: Installation</i>	7 / 16.750	12 / 8.620	12 / 11.240	16 / 6.183	- / -	16 / 6.183	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	84.113	55.285	16.305	10.027	0.000	10.027	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9155 / GCS Blk 30
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: GCS Block 30

Manufacturer Information

Manufacturer Name: General Atomics-ASI Manufacturer Location: Poway, CA

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 3

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

Installation Information

Method of Implementation: Depot Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 16.750	12 / 0.000	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	0 / 8.620	9 / 0.000	3 / 0.000	- / -	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	0 / 11.240	13 / 0.000	- / -	13 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 6.183	- / -	0 / 6.183	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 16.750	12 / 8.620	12 / 11.240	16 / 6.183	- / -	16 / 6.183	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	1	5	2	4	3	1	5	3	3	3	4	6	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	-	-	0	86
Out	7	-	1	4	3	2	4	2	4	3	3	3	4	4	3	4	3	3	3	3	3	3	3	3	3	3	3	3	2	-	0	86			

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9164 / Extended Range MQ-9

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	83.610	69.064	33.954	67.732	0.000	67.732	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	83.610	69.064	33.954	67.732	0.000	67.732	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	83.610	69.064	33.954	67.732	0.000	67.732	-	-	-	-	-	-

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

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

Description:

This program adds Extended Range (ER) capability to the MQ-9 aircraft. Candidate aircraft modifications include, but are not limited to, external fuel tanks with shipping containers, 4-bladed propeller with shipping containers, engine modifications, fuel system modifications, and software modifications. Current plan is to modify all MQ-9 aircraft to the ER configuration. This program will revise quantities based on updated user requirements and as funding permits. Funding may be used to address Diminishing Manufacturing Sources (DMS) and Non-Recurring Engineering (NRE) issues.

The ER modification will be modifying 165 Block 1 aircraft and 136 Block 5 aircraft per the users identified requirements. OCO funded modifications will have the installations paid for at contract award, but installations will not occur until kits begin to deliver. All other program office installations will be paid for in the year the installations actually occur.

Requirement for this modification was validated by the Chairman of the Joint Chiefs of Staff in conjunction with the Warfighter Senior Integration Group in response to an urgent operational need.

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 44 modified Block 1 ER aircraft by July 2016 to meet a Joint Urgent Operational Need (JUON). The remaining Block 1 aircraft are programmed to be modified to the ER configuration. All Block 5 aircraft are programmed to be modified to the ER configuration.

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Exhibit P-3a, Individual Modification: FY 2018 Air Force											Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5				P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS				Modification Number / Title: 9164 / Extended Range MQ-9				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Models of Systems Affected: MQ-9			Modification Type: Capability Improvement				Related RDT&E PEs: 0205219F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 959.356	- / 124.694	- / 151.373	- / 204.221	- / -	- / 204.221	- / -	- / -	- / -	- / -	- / -	- / -
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	59 / 5.684	22 / 2.207	58 / 4.160	- / -	58 / 4.160	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 6.344	- / 5.684	- / 2.207	- / 4.160	- / -	- / 4.160	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
Extended Range MQ-9:EQUIPMENT Group B (Active)	49 / 57.096	59 / 51.156	22 / 28.318	58 / 53.379	- / -	58 / 53.379	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 57.096	- / 51.156	- / 28.318	- / 53.379	- / -	- / 53.379	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Extended Range MQ-9</i>	- / 63.440	- / 56.840	- / 30.525	- / 57.539	- / -	- / 57.539	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / 63.440	- / 56.840	- / 30.525	- / 57.539	- / -	- / 57.539	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
OTHER GOVT	- / 4.660	- / 2.239	- / 3.429	- / 6.464	- / -	- / 6.464	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / 4.660	- / 2.239	- / 3.429	- / 6.464	- / -	- / 6.464	- / -	- / -	- / -	- / -	- / -	- / -
Installation												
Modification Item 1 of 1: Extended Range MQ-9	49 / 15.510	0 / 9.985	5 / 0.000	27 / 3.729	- / -	27 / 3.729	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	49 / 15.510	- / 9.985	5 / -	27 / 3.729	- / -	27 / 3.729	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	83.610	69.064	33.954	67.732	0.000	67.732	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9164 / Extended Range MQ-9

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: Extended Range MQ-9

Manufacturer Information

Manufacturer Name: General Atomics - ASI				Manufacturer Location: Poway, CA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 13			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jan 2017	May 2017	Mar 2018				
Delivery Dates	Feb 2018	Jun 2018	Apr 2019				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	49 / 15.510	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	0 / 9.985	5 / 0.000	27 / 0.000	- / -	27 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 3.729	- / -	0 / 3.729	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	49 / 15.510	0 / 9.985	5 / 0.000	27 / 3.729	- / -	27 / 3.729	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	49	-	-	-	-	-	-	-	5	5	6	7	9	9	15	18	18	18	18	16	15	14	14	9	9	9	9	9	9	9	13	303
Out	49	-	-	-	-	-	-	-	-	5	5	6	7	9	9	15	18	18	18	18	16	15	14	14	9	9	9	9	9	9	22	303

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9167 / MQ-9 Upgrade

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	144.698	134.248	56.400	190.648
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	144.698	134.248	56.400	190.648
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	144.698	134.248	56.400	190.648

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

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

Description:

The MQ-9 Reaper Upgrade 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 (AH) 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. Funding may be used to address Diminishing Manufacturing Sources (DMS) and Non-Recurring Engineering (NRE) issues.

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 167 Block 1 and the remaining 68 Block 5 aircraft delivered without DAS-4. For the Hybrid Release retrofit, the program will modify 148 Block 5 aircraft.

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 Global Positioning System (GPS), Auto Takeoff and Landing, JDAM Targeting, GCS Block 50 Tech Refresh, Flight Payload Separation.

In 2017, program 9167/MQ-9 Upgrade(Capability Improvement) was a new start.

FY17 OCO includes \$107.0M for 66 DAS-4 upgrades.

FY18 OCO includes \$56.4M for 26 DAS-4 upgrades.

Milestone/Development Status

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5	P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	Modification Number / Title: 9167 / MQ-9 Upgrade
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Release 3 Contract award is currently scheduled for award in 1Q 2019.		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5			P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS		Modification Number / Title: 9167 / MQ-9 Upgrade	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: MQ-9		Modification Type: Capability Improvement			Related RDT&E PEs: 0205219F	
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
	Qty (Each) / Total Cost (\$ M)	Qty (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	- / 204.221	- / -	- / 204.221
Procurement						
Modification Item 1 of 1: DAS-4 EO/IR Sensor						
A Kits						
Recurring						
DAS-4 EO/IR Sensor:INSTALL KITS Group A (Active)	- / -	- / -	66 / 13.442	77 / 12.472	- / 5.240	77 / 17.712
<i>Subtotal: Recurring</i>	- / -	- / -	- / 13.442	- / 12.472	- / 5.240	- / 17.712
B Kits						
Recurring						
DAS-4 EO/IR Sensor:EQUIPMENT Group B (Active)	- / -	- / -	66 / 120.968	77 / 112.231	- / 47.150	77 / 159.381
<i>Subtotal: Recurring</i>	- / -	- / -	- / 120.968	- / 112.231	- / 47.150	- / 159.381
<i>Subtotal: DAS-4 EO/IR Sensor</i>	- / -	- / -	- / 134.410	- / 124.703	- / 52.390	- / 177.093
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 134.410	- / 124.703	- / 52.390	- / 177.093
Support (All Modification Items)						
OTHER GOVT						
	- / -	- / -	- / 10.288	- / 9.545	- / 4.010	- / 13.555
<i>Subtotal: Support</i>	- / -	- / -	- / 10.288	- / 9.545	- / 4.010	- / 13.555
Installation						
<i>Subtotal: Installation</i>						
	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)	-	0.000	144.698	134.248	56.400	190.648

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5		P-1 Line Item Number / Title: PRDTB2 / MQ-9 MODS	
		Modification Number / Title: 9167 / MQ-9 Upgrade	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 1 of 1: DAS-4 EO/IR Sensor			
Manufacturer Information			
Manufacturer Name: General Atomics, ASI		Manufacturer Location: Poway, CA	
Administrative Leadtime (<i>in Months</i>): 4		Production Leadtime (<i>in Months</i>): 10	
Dates	FY 2016	FY 2017	FY 2018
Contract Dates		Feb 2017	Feb 2018
Delivery Dates		Dec 2017	Dec 2018
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 235	

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft	P-1 Line Item Number / Title: V02200 / CV-22 MODS
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0401318F
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Line Item MDAP/MAIS Code: 212

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	143.695	58.603	63.395	60.990	0.000	60.990	68.843	70.825	72.131	73.575	557.946	1,170.003
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	143.695	58.603	63.395	60.990	0.000	60.990	68.843	70.825	72.131	73.575	557.946	1,170.003
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	143.695	58.603	63.395	60.990	0.000	60.990	68.843	70.825	72.131	73.575	557.946	1,170.003

(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, 50 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 February 2020. As of 28 February 2017, the CV-22 fleet had accumulated approximately 72,809 flying hours.

Funding for this exhibit contained in PE 0401318F.

The primary modification budgeted in FY18 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: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

P-1 Line Item Number / Title:
V02200 / CV-22 MODS

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

Line Item MDAP/MAIS Code: 212

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	99999X / Low Cost Modifications (Other)				- / 13.409	- / 1.999	- / 1.999	- / 1.999	- / -	- / 1.999
P-3a	8790 / Block 20 Upgrade (Capability Improvement)				- / 130.286	- / 56.604	- / 61.396	- / 58.991	- / 0.000	- / 58.991
P-40	Total Gross/Weapon System Cost				- / 143.695	- / 58.603	- / 63.395	- / 60.990	- / 0.000	- / 60.990

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	99999X / Low Cost Modifications (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	8790 / Block 20 Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 68.843	- / 70.825	- / 72.131	- / 73.575	- / 557.946	- / 1,170.003

*** 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: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	130.286	56.604	61.396	58.991	0.000	58.991	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	130.286	56.604	61.396	58.991	0.000	58.991	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	130.286	56.604	61.396	58.991	0.000	58.991	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	2.731	0.882	0.241	-	0.241	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

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 capabilities, and nacelle improvements (formerly improved inlet solution). 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. Individual P-3As indicate which modifications are implemented at the depot level, and the installation schedules reflect only these depot level installs.

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 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 June 2017. Additional ECPs have since been added under the Block C/20 umbrella, including the enhanced self-deployment capabilities and nacelle improvements (Formerly Improved Inlet Solution (IIS)).

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Development activities for the enhanced self-deployment capabilities encompass a number of different requirements in various stages of analysis, development, and testing.		
Nacelle Improvements (Formerly Improved Inlet Solution IIS): During IIS development, it was realized there are other components in the V-22 nacelle that require readiness improvements and can benefit from synergy of fielding simultaneous with IIS; including, but not limited to, the Infrared Suppressor (IRS), Generator Control Unit (GCU), nacelle wiring, heat exchanger, the nacelle structure, and mitigation of blade erosion. These common nacelle improvements for both the CV-22 and MV-22 fleets will increase Engine Time on Wing (ETOW) and overall aircraft readiness/availability, reduce platform operating life cycle costs, and mitigate impacts to aircraft performance. The Preliminary Design Review (PDR) for Nacelle Improvements is planned for the first quarter of FY2017 and the Critical Design Review (CDR) is planned for FY2017. Post-CDR development efforts continue in FY2017 and FY2018. Ground and flight testing are planned in the FY2018-2019 timeframe.		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 31: 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 0.052	- / 0.053	- / 0.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: AC Bus Tie Impr</i>	- / 0.052	- / 0.053	- / 0.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 2 of 31: Advanced Threat Warning System													
A Kits													
Recurring													
Advanced Threat Warning System:INSTALL KITS Group A (Active)	10 / 1.050	- / -	12 / 2.595	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 1.050	- / -	- / 2.595	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
B Kits													
Recurring													
Advanced Threat Warning System:EQUIPMENT Group B (Active)	10 / 10.850	- / -	12 / 10.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 10.850	- / -	- / 10.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Advanced Threat Warning System</i>	- / 11.900	- / -	- / 12.695	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 3 of 31: Auto Dependent Surveillance-Broadcast ADSB/Out													
A Kits													
Recurring													
Auto Dependent Surveillance-Broadcast ADSB/Out:INSTALL KITS Group A (Active)	- / -	20 / 1.620	31 / 1.472	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / 1.620	- / 1.472	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Auto Dependent Surveillance-Broadcast ADSB/Out</i>	- / -	- / 1.620	- / 1.472	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 4 of 31: Blk C ECP901													
A Kits													
Recurring													
Blk C ECP901:INSTALL KITS Group A (Active)	21 / 14.765	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

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

Models of Systems Affected: CV-22 **Modification Type:** Capability Improvement **Related RDT&E PEs:** 0401318F

Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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>	- / 14.765	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Blk C ECP901</i>	- / 14.765	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 5 of 31: BLOS ECP1041												
A Kits												
Recurring												
BLOS ECP1041:INSTALL KITS Group A (Active)	- / -	11 / 1.563	11 / 2.140	11 / 2.140	- / -	11 / 2.140	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / 1.563	- / 2.140	- / 2.140	- / -	- / 2.140	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: BLOS ECP1041</i>	- / -	- / 1.563	- / 2.140	- / 2.140	- / -	- / 2.140	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 6 of 31: Cockpit Voice Recorder ECP964												
A Kits												
Recurring												
Cockpit Voice Recorder ECP964:INSTALL KITS Group A (Active)	5 / 0.160	11 / 0.446	11 / 0.242	11 / 0.377	- / -	11 / 0.377	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 0.160	- / 0.446	- / 0.242	- / 0.377	- / -	- / 0.377	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Cockpit Voice Recorder ECP964</i>	- / 0.160	- / 0.446	- / 0.242	- / 0.377	- / -	- / 0.377	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 7 of 31: Co-Site ECP901												
A Kits												
Recurring												
Co-Site ECP901:INSTALL KITS Group A (Active)	26 / 13.181	4 / 2.300	4 / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 13.181	- / 2.300	- / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Co-Site ECP901</i>	- / 13.181	- / 2.300	- / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 8 of 31: Data Transfer Unit Upgrade												
A Kits												
Recurring												
Data Transfer Unit Upgrade:INSTALL KITS Group A (Active)	- / -	- / -	- / -	25 / 0.500	- / -	25 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Data Transfer Unit Upgrade</i>	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 9 of 31: Drive Tube ECP929												
A Kits												
Recurring												

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	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>	
Drive Tube ECP929:INSTALL KITS Group A (Active)	- / -	- / -	8 / 0.339	10 / 0.563	- / -	10 / 0.563	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.339	- / 0.563	- / -	- / 0.563	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Drive Tube ECP929</i>	- / -	- / -	- / 0.339	- / 0.563	- / -	- / 0.563	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 10 of 31: Emergency O2 Bottle Gauge ECP527R1													
A Kits													
Recurring													
Emergency O2 Bottle Gauge ECP527R1:INSTALL KITS Group A (Active)	38 / 0.030	4 / 0.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 0.030	- / 0.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Emergency O2 Bottle Gauge ECP527R1</i>	- / 0.030	- / 0.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 11 of 31: Engine Thermo-Couple Wiring Harness ECP1075													
A Kits													
Recurring													
Engine Thermo-Couple Wiring Harness ECP1075:INSTALL KITS Group A (Active)	- / -	10 / 0.152	11 / 0.169	11 / 0.172	- / -	11 / 0.172	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / 0.152	- / 0.169	- / 0.172	- / -	- / 0.172	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Engine Thermo-Couple Wiring Harness ECP1075</i>	- / -	- / 0.152	- / 0.169	- / 0.172	- / -	- / 0.172	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 12 of 31: Formsprag Clutch Impr													
A Kits													
Recurring													
Formsprag Clutch Impr:INSTALL KITS Group A (Active)	- / -	- / -	- / -	10 / 0.910	- / -	10 / 0.910	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.910	- / -	- / 0.910	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Formsprag Clutch Impr</i>	- / -	- / -	- / -	- / 0.910	- / -	- / 0.910	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 13 of 31: Fuel Jettison ECP906													
A Kits													
Recurring													
Fuel Jettison ECP906:INSTALL KITS Group A (Active)	26 / 10.208	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 10.208	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Fuel Jettison ECP906</i>	- / 10.208	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017		
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		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F				
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 14 of 31: 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	- / -	11 / 0.421	- / -	11 / 0.421	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 0.702	- / 0.557	- / -	- / 0.421	- / -	- / 0.421	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Fwd Looking Infrared Systems Electronics Unit (FLIR SEU)	- / 0.702	- / 0.557	- / -	- / 0.421	- / -	- / 0.421	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 15 of 31: GAU-21 Gun												
A Kits												
Recurring												
GAU-21 Gun:INSTALL KITS Group A (Active)	100 / 2.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 2.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: GAU-21 Gun	- / 2.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 16 of 31: Gen 5 Radio ECP866R1												
A Kits												
Recurring												
Gen 5 Radio ECP866R1:INSTALL KITS Group A (Active)	26 / 0.044	13 / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 0.044	- / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
Gen 5 Radio ECP866R1:EQUIPMENT Group B (Active)	26 / 8.482	13 / 3.414	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / 8.482	- / 3.414	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Gen 5 Radio ECP866R1	- / 8.526	- / 3.436	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 17 of 31: Gimbal Ring Joint Redesign ECP1001												
A Kits												
Recurring												
Gimbal Ring Joint Redesign ECP1001:INSTALL KITS Group A (Active)	- / -	- / -	- / -	10 / 0.420	- / -	10 / 0.420	- / -	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / -	- / -	- / 0.420	- / -	- / 0.420	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017		
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		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F				
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	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: Gimbal Ring Joint Redesign ECP1001</i>	- / -	- / -	- / -	- / 0.420	- / -	- / 0.420	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 18 of 31: MCOI CAPRE												
A Kits												
Recurring												
MCOI CAPRE:INSTALL KITS Group A (Active)	5 / 0.025	- / -	11 / 0.055	11 / 0.055	- / -	11 / 0.055	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 0.025	- / -	- / 0.055	- / 0.055	- / -	- / 0.055	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: MCOI CAPRE</i>	- / 0.025	- / -	- / 0.055	- / 0.055	- / -	- / 0.055	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 19 of 31: MCOI ECP873												
A Kits												
Recurring												
MCOI ECP873:INSTALL KITS Group A (Active)	8 / 3.976	- / -	13 / 5.468	11 / 5.027	- / -	11 / 5.027	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 3.976	- / -	- / 5.468	- / 5.027	- / -	- / 5.027	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: MCOI ECP873</i>	- / 3.976	- / -	- / 5.468	- / 5.027	- / -	- / 5.027	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 20 of 31: Middle Auxiliary Fuel Tanks												
A Kits												
Recurring												
Middle Auxiliary Fuel Tanks:INSTALL KITS Group A (Active)	15 / 3.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 3.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Middle Auxiliary Fuel Tanks</i>	- / 3.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 21 of 31: Mode 5 APX-119 ECP935												
A Kits												
Recurring												
Mode 5 APX-119 ECP935:INSTALL KITS Group A (Active)	25 / 1.451	11 / 0.837	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / 1.451	- / 0.837	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Mode 5 APX-119 ECP935</i>	- / 1.451	- / 0.837	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 22 of 31: Nose Landing Gear ECP869												
A Kits												
Recurring												
Nose Landing Gear ECP869:INSTALL KITS Group A (Active)	14 / 0.091	2 / 0.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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>	- / 0.091	- / 0.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Nose Landing Gear ECP869</i>	- / 0.091	- / 0.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 23 of 31: PRGB Atmospheric Protection ECP992													
A Kits													
Recurring													
PRGB Atmospheric Protection ECP992:INSTALL KITS Group A (Active)	- / -	8 / 0.050	8 / 0.050	17 / 0.106	- / -	17 / 0.106	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / 0.050	- / 0.050	- / 0.106	- / -	- / 0.106	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: PRGB Atmospheric Protection ECP992</i>	- / -	- / 0.050	- / 0.050	- / 0.106	- / -	- / 0.106	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 24 of 31: 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 / 0.836	- / -	12 / 0.836	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.820	- / 0.836	- / -	- / 0.836	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Prop Rotor Hub Spring & Drive Link Impr</i>	- / -	- / -	- / 0.820	- / 0.836	- / -	- / 0.836	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 25 of 31: Rudder Reliability ECP1020													
A Kits													
Recurring													
Rudder Reliability ECP1020:INSTALL KITS Group A (Active)	12 / 0.028	- / -	10 / 0.020	10 / 0.031	- / -	10 / 0.031	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 0.028	- / -	- / 0.020	- / 0.031	- / -	- / 0.031	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Rudder Reliability ECP1020</i>	- / 0.028	- / -	- / 0.020	- / 0.031	- / -	- / 0.031	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 26 of 31: Satcom Antenna Mounting ECP901R2													
A Kits													
Recurring													
Satcom Antenna Mounting ECP901R2:INSTALL KITS Group A (Active)	15 / 0.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 0.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Satcom Antenna Mounting ECP901R2</i>	- / 0.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CV-22				Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 27 of 31: Satcom Beefy Cables Retrofit ECP901R2													
A Kits													
Recurring													
Satcom Beefy Cables Retrofit ECP901R2:INSTALL KITS Group A (Active)	26 / 0.138	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 0.138	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Satcom Beefy Cables Retrofit ECP901R2	- / 0.138	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 28 of 31: Satcom Egg Beater Antenna ECP901R2													
A Kits													
Recurring													
Satcom Egg Beater Antenna ECP901R2:INSTALL KITS Group A (Active)	27 / 0.604	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 0.604	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Satcom Egg Beater Antenna ECP901R2	- / 0.604	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 29 of 31: Satcom Troop Commander Panel ECP901R2													
A Kits													
Recurring													
Satcom Troop Commander Panel ECP901R2:INSTALL KITS Group A (Active)	20 / 0.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 0.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Satcom Troop Commander Panel ECP901R2	- / 0.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 30 of 31: Swashplate Actuator ECP980													
A Kits													
Recurring													
Swashplate Actuator ECP980:INSTALL KITS Group A (Active)	46 / 0.074	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 0.074	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Swashplate Actuator ECP980	- / 0.074	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 31 of 31: Wiring Harness ECP915													
A Kits													

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
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			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CV-22			Modification Type: Capability Improvement				Related RDT&E PEs: 0401318F						
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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													
Wiring Harness ECP915:INSTALL KITS Group A (Active)	35 / 0.608	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Recurring	- / 0.608	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Wiring Harness ECP915	- / 0.608	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Procurement, All Modification Items	- / 71.688	- / 11.030	- / 25.823	- / 11.558	- / -	- / 11.558	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 14.479	- / 12.432	- / 9.407	- / 11.372	- / -	- / 11.372	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / 6.034	- / 7.834	- / 5.900	- / 8.991	- / -	- / 8.991	- / -	- / -	- / -	- / -	- / -	- / -	
Mod of Spares	- / 0.256	- / 0.552	- / 0.552	- / 0.576	- / -	- / 0.576	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / 2.500	- / 2.500	- / 2.500	- / 2.500	- / -	- / 2.500	- / -	- / -	- / -	- / -	- / -	- / -	
SIM/TRAINER	15 / 15.982	3 / 9.436	2 / 6.389	5 / 7.871	- / -	5 / 7.871	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / 1.674	- / 2.025	- / 0.975	- / 2.200	- / -	- / 2.200	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT	- / 7.432	- / 9.216	- / 7.903	- / 10.100	- / -	- / 10.100	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Support	15 / 48.357	3 / 43.995	2 / 33.626	5 / 43.610	- / -	5 / 43.610	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
Modification Item 1 of 31: AC Bus Tie Impr	- / -	11 / 0.098	11 / 0.103	11 / 0.105	- / -	11 / 0.105	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 2 of 31: Advanced Threat Warning System	- / -	- / -	10 / 0.910	12 / 1.200	- / -	12 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 4 of 31: Blk C ECP901	15 / 2.372	6 / 0.860	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 5 of 31: BLOS ECP1041	- / -	- / -	- / -	11 / 0.321	- / -	11 / 0.321	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 6 of 31: Cockpit Voice Recorder ECP964	- / -	5 / 0.088	11 / 0.176	11 / 0.176	- / -	11 / 0.176	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 7 of 31: Co-Site ECP901	15 / 0.773	11 / 0.497	4 / 0.107	4 / 0.107	- / -	4 / 0.107	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 11 of 31: Engine Thermo-Couple Wiring Harness ECP1075	- / -	- / -	- / -	10 / 0.209	- / -	10 / 0.209	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 13 of 31: Fuel Jettison ECP906	26 / 4.967	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 16 of 31: Gen 5 Radio ECP866R1	- / -	- / -	13 / 0.133	13 / 0.131	- / -	13 / 0.131	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 18 of 31: MCOI CAPRE	- / -	- / -	2 / 0.090	11 / 0.495	- / -	11 / 0.495	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 19 of 31: MCOI ECP873	- / -	- / -	4 / 0.180	13 / 0.585	- / -	13 / 0.585	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 22 of 31: Nose Landing Gear ECP869	14 / 0.098	- / -	2 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 24 of 31: Prop Rotor Hub Spring & Drive Link Impr	- / -	- / -	- / -	12 / 0.208	- / -	12 / 0.208	- / -	- / -	- / -	- / -	- / -	- / -	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: CV-22	Modification Type: Capability Improvement	Related RDT&E PEs: 0401318F
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Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 25 of 31: Rudder Reliability ECP1020	- / -	- / -	12 / 0.234	10 / 0.229	- / -	10 / 0.229	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 26 of 31: Satcom Antenna Mounting ECP901R2	15 / 0.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 27 of 31: Satcom Beefy Cables Retrofit ECP901R2	15 / 0.285	4 / 0.028	- / -	4 / 0.033	- / -	4 / 0.033	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 28 of 31: Satcom Egg Beater Antenna ECP901R2	15 / 0.042	4 / 0.008	- / -	4 / 0.010	- / -	4 / 0.010	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 29 of 31: Satcom Troop Commander Panel ECP901R2	15 / 0.108	- / -	- / -	2 / 0.014	- / -	2 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 31 of 31: Wiring Harness ECP915	35 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	<i>165 / 10.241</i>	<i>41 / 1.579</i>	<i>69 / 1.947</i>	<i>128 / 3.823</i>	<i>- / -</i>	<i>128 / 3.823</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>
Total												
Total Cost (Procurement + Support + Installation)	130.286	56.604	61.396	58.991	0.000	58.991	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 31: AC Bus Tie Impr

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Sep 2016	Sep 2017					
Delivery Dates	Mar 2017	Mar 2018					

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	11 / 0.098	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	11 / 0.103	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	11 / 0.105	- / -	11 / 0.105	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	11 / 0.098	11 / 0.103	11 / 0.105	- / -	11 / 0.105	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	3	4	4	-	3	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	33
Out	0	-	-	-	5	6	-	3	4	4	2	3	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	33

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 2 of 31: 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 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Aug 2017					
Delivery Dates		Aug 2018					

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.910	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	12 / 1.200	- / -	12 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	10 / 0.910	12 / 1.200	- / -	12 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	51
Out	0	-	-	-	-	-	-	-	5	5	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	51

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017		
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 3 of 31: Auto Dependent Surveillance-Broadcast ADSB/Out							
Manufacturer Information							
Manufacturer Name: iGATM				Manufacturer Location: Hanscom, MA			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jul 2017	Jul 2017					
Delivery Dates	Jul 2018	Jul 2018					
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 51		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

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

Modification Item 4 of 31: Blk C ECP901

Manufacturer Information

Manufacturer Name: Bell-Boeing Manufacturer Location: Amarillo TX

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 2.372	6 / 0.860	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 2.372	6 / 0.860	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	2	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	21
Out	13	2	2	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	21

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 5 of 31: BLOS ECP1041

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 15

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	11 / 0.321	- / -	11 / 0.321	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	11 / 0.321	- / -	11 / 0.321	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	5	2	3	3	3	2	3	3	3	2	3	3	3	2	2	2	-	0	50
Out	0	-	-	-	-	-	-	-	-	-	3	3	5	2	3	3	3	3	2	3	3	3	2	3	3	3	2	2	2	0	50

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 6 of 31: Cockpit Voice Recorder ECP964

Manufacturer Information

Manufacturer Name: Bell-Boeing				Manufacturer Location: Amarillo TX			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 10			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Feb 2016	Nov 2016	Nov 2017				
Delivery Dates	Dec 2016	Sep 2017	Sep 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	11 / 0.176	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	11 / 0.176	- / -	11 / 0.176	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	5 / 0.088	11 / 0.176	11 / 0.176	- / -	11 / 0.176	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	2	-	3	3	3	-	2	2	-	-	-	-	-	0	48	
Out	0	-	1	2	2	-	3	3	3	2	3	3	3	2	3	3	2	-	3	3	3	-	2	2	-	-	-	-	0	48	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

Modification Item 7 of 31: Co-Site ECP901

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.773	11 / 0.497	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	4 / 0.107	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	4 / 0.107	- / -	4 / 0.107	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 0.773	11 / 0.497	4 / 0.107	4 / 0.107	- / -	4 / 0.107	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	1	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	34
Out	15	-	3	3	3	2	1	1	1	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	34

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 8 of 31: Data Transfer Unit Upgrade							
Manufacturer Information							
Manufacturer Name: Bell-Boeing				Manufacturer Location: Amarillo TX			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Feb 2018				
Delivery Dates			Feb 2019				
Installation Information							
Method of Implementation (Organic): Org/Intermediate						Installation Quantity: 51	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 9 of 31: Drive Tube ECP929							
Manufacturer Information							
Manufacturer Name: Bell-Boeing				Manufacturer Location: Amarillo TX			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 3			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Dec 2016	Dec 2017				
Delivery Dates		Mar 2017	Mar 2018				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 51		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 10 of 31: Emergency O2 Bottle Gauge ECP527R1							
Manufacturer Information							
Manufacturer Name: Bell-Boeing				Manufacturer Location: Amarillo TX			
Administrative Leadtime (<i>in Months</i>): 9				Production Leadtime (<i>in Months</i>): 14			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Aug 2016						
Delivery Dates	Sep 2017						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 42		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 11 of 31: Engine Thermo-Couple Wiring Harness ECP1075

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 22

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Jan 2016	Dec 2016	Dec 2017				
Delivery Dates	Nov 2017	Oct 2018	Oct 2019				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	10 / 0.209	- / -	10 / 0.209	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	10 / 0.209	- / -	10 / 0.209	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	2	2	3	3	3	3	3	2	3	3	3	2	3	3	3	2	3	3	1	-	0	50
Out	0	-	-	-	-	-	-	-	-	-	2	2	3	3	3	3	3	2	3	3	3	2	3	3	3	2	3	3	1	0	50

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 12 of 31: Formsprag Clutch Impr							
Manufacturer Information							
Manufacturer Name: Bell-Boeing				Manufacturer Location: Amarillo TX			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Feb 2018				
Delivery Dates			Feb 2019				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 51		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 13 of 31: Fuel Jettison ECP906

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	26 / 4.967	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	26 / 4.967	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	26
Out	24	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	26

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 14 of 31: Fwd Looking Infrared Systems Electronics Unit (FLIR SEU)							
Manufacturer Information							
Manufacturer Name: Bell-Boeing				Manufacturer Location: Amarillo TX			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Sep 2016		Nov 2017				
Delivery Dates	Sep 2017		Nov 2018				
Installation Information							
Method of Implementation (Organic): Org/Intermediate						Installation Quantity: 51	

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Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 15 of 31: GAU-21 Gun							
Manufacturer Information							
Manufacturer Name: Specialty CNC Incorporated				Manufacturer Location: Bloomington IN			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 100		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 16 of 31: Gen 5 Radio ECP866R1

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 21

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.133	13 / 0.131	- / -	13 / 0.131	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	13 / 0.133	13 / 0.131	- / -	13 / 0.131	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	4	1	4	4	4	1	-	-	-	-	-	-	-	-	-	-	-	-	0	39
Out	0	-	-	-	-	-	3	3	3	4	4	4	4	1	4	4	4	1	-	-	-	-	-	-	-	-	-	-	-	0	39

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force	Date: May 2017
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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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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 17 of 31: Gimbal Ring Joint Redesign ECP1001

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 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates			Dec 2017				
Delivery Dates			Dec 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	4	4	4	5	0	51
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	2	2	3	3	3	3	3	3	3	3	4	4	9	0	51

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

Modification Item 18 of 31: MCOI CAPRE

Manufacturer Information

Manufacturer Name: Prototype Integration Facility Manufacturer Location: Huntsville AL

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 12

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Mar 2017	Dec 2017				
Delivery Dates		Mar 2018	Dec 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	2 / 0.090	3 / 0.135	- / -	3 / 0.135	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	8 / 0.360	- / -	8 / 0.360	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 0.090	11 / 0.495	- / -	11 / 0.495	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	3	3	2	2	3	3	3	2	3	3	3	3	3	3	4	3	-	-	-	0	51
Out	0	-	-	-	-	-	-	-	-	2	3	3	3	2	2	3	3	3	2	3	3	3	3	3	3	4	3	-	-	0	51

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 19 of 31: MCOI ECP873

Manufacturer Information

Manufacturer Name: Elbit Systems	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Mar 2017	Dec 2017				
Delivery Dates		Mar 2018	Dec 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.180	4 / 0.180	- / -	4 / 0.180	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	9 / 0.405	- / -	9 / 0.405	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	4 / 0.180	13 / 0.585	- / -	13 / 0.585	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	3	3	3	4	3	3	3	2	3	3	2	1	2	2	2	2	-	-	-	0	49
Out	0	-	-	-	-	-	-	-	-	4	4	3	3	3	4	3	3	3	2	3	3	2	1	2	2	2	2	-	-	0	49

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Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 20 of 31: Middle Auxiliary Fuel Tanks							
Manufacturer Information							
Manufacturer Name: Robertson Fuel Systems				Manufacturer Location: Tempe AZ			
Administrative Leadtime (in Months): 8				Production Leadtime (in Months): 9			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 15		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 21 of 31: Mode 5 APX-119 ECP935							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Aberdeen Proving Grounds MD			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 10			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Sep 2016						
Delivery Dates	Jul 2017						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 36		

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Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

Modification Item 22 of 31: Nose Landing Gear ECP869

Manufacturer Information

Manufacturer Name: Bell-Boeing Manufacturer Location: Amarillo TX

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 3

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.098	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	2 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	14 / 0.098	- / -	2 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	14	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	16
Out	12	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	16

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Exhibit P-3a, Individual Modification: FY 2018 Air Force					Date: May 2017		
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		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 23 of 31: PRGB Atmospheric Protection ECP992							
Manufacturer Information							
Manufacturer Name: Bell-Boeing				Manufacturer Location: Amarillo TX			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates	Apr 2016	Apr 2017	Apr 2018				
Delivery Dates	Oct 2017	Oct 2018	Oct 2019				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 64		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 24 of 31: 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 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Dec 2016	Dec 2017				
Delivery Dates		Dec 2017	Dec 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	12 / 0.208	- / -	12 / 0.208	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	12 / 0.208	- / -	12 / 0.208	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	3	3	0	51
Out	0	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-	-	0	51

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 25 of 31: Rudder Reliability ECP1020

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Dec 2016	Dec 2017				
Delivery Dates		Dec 2017	Dec 2018				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.234	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	10 / 0.229	- / -	10 / 0.229	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	12 / 0.234	10 / 0.229	- / -	10 / 0.229	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	3	3	3	3	2	2	2	4	2	2	2	4	2	2	2	4	-	-	-	-	-	-	-	-	0	42
Out	0	-	-	-	-	-	3	3	3	3	2	2	2	4	2	2	2	4	2	2	6	-	-	-	-	-	-	-	-	0	42

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 26 of 31: Satcom Antenna Mounting ECP901R2

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 0.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15	
Out	13	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 27 of 31: Satcom Beefy Cables Retrofit ECP901R2

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.285	4 / 0.028	- / -	4 / 0.033	- / -	4 / 0.033	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 0.285	4 / 0.028	- / -	4 / 0.033	- / -	4 / 0.033	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	15	1	1	1	1	-	-	-	-	2	2	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	26
Out	13	2	1	1	1	-	-	-	-	1	2	2	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0	26

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force		Date: May 2017
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

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 28 of 31: Satcom Egg Beater Antenna ECP901R2

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.042	4 / 0.008	- / -	4 / 0.010	- / -	4 / 0.010	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 0.042	4 / 0.008	- / -	4 / 0.010	- / -	4 / 0.010	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	15	1	1	1	1	-	-	-	-	2	2	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	27
Out	13	2	1	1	1	-	-	-	-	1	2	-	-	-	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	0	27

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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

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

Modification Item 29 of 31: Satcom Troop Commander Panel ECP901R2

Manufacturer Information

Manufacturer Name: Bell-Boeing Manufacturer Location: Amarillo TX

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 0.108	- / -	- / -	2 / 0.014	- / -	2 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 0.108	- / -	- / -	2 / 0.014	- / -	2 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	-	-	-	-	-	-	-	-	2	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	20
Out	13	-	-	-	-	-	-	-	-	2	2	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	20

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force						Date: May 2017	
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	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 30 of 31: Swashplate Actuator ECP980							
Manufacturer Information							
Manufacturer Name: Bell-Boeing				Manufacturer Location: Amarillo TX			
Administrative Leadtime (in Months): 7				Production Leadtime (in Months): 12			
Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 46		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: FY 2018 Air Force **Date:** May 2017

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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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 31 of 31: Wiring Harness ECP915

Manufacturer Information

Manufacturer Name: Bell-Boeing	Manufacturer Location: Amarillo TX
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 3

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

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	35 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	35 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				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	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	35
Out	30	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	35