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

May 2017



**Air Force**

*Justification Book Volume 1 of 1*

***Other Procurement, Air Force***

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Air Force • Budget Estimates FY 2018 • Procurement

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**Appropriation Language  
Fiscal Year (FY) 2018 President's Budget Request  
Other Procurement, Air Force**

For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment), and supplies, materials, and spare parts therefor, not otherwise provided for; the purchase of passenger motor and expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon, prior to approval of title; reserve plant and Government, contractor-owned equipment layaway, and overseas contingency operations, \$3,467,046,000 to remain available for obligation until September 30, 2020.

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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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Department of the Air Force  
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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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Department of the Air Force  
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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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## Appropriation: Other 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 -----
02. Vehicular Equipment	226,353	141,151	708,287
03. Electronics and Telecommunications Equip	1,381,746	1,285,033	1,555,733
04. Other Base Maintenance and Support Equip	20,150,172	15,996,088	16,434,581
05. Spares and Repair Parts	59,863	15,784	16,600
20. Undistributed		837,599	837,599
Total Other Procurement, Air Force	21,818,134	18,275,655	19,552,800

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## Appropriation: Other 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 -----
02. Vehicular Equipment	106,817	106,817		106,817
03. Electronics and Telecommunications Equip	62,670	138,670		138,670
04. Other Base Maintenance and Support Equip	3,526,794	3,800,591	-137,884	3,662,707
05. Spares and Repair Parts				
20. Undistributed	-219,280	-219,280		-219,280
Total Other Procurement, Air Force	3,477,001	3,826,798	-137,884	3,688,914

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## Appropriation: Other 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 -----
02. Vehicular Equipment	247,968	815,104		815,104
03. Electronics and Telecommunications Equip	1,347,703	1,694,403		1,694,403
04. Other Base Maintenance and Support Equip	19,660,766	20,235,172	-137,884	20,097,288
05. Spares and Repair Parts	15,784	16,600		16,600
20. Undistributed	618,319	618,319		618,319
Total Other Procurement, Air Force	21,890,540	23,379,598	-137,884	23,241,714

Department of the Air Force  
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04 May 2017

Appropriation: Other Procurement, Air Force

Budget Activity -----	FY 2018 Base -----	FY 2018 OCO -----	FY 2018 Total -----
02. Vehicular Equipment	270,954	119,018	389,972
03. Electronics and Telecommunications Equip	1,517,059	130,343	1,647,402
04. Other Base Maintenance and Support Equip	17,788,809	3,759,526	21,548,335
05. Spares and Repair Parts	26,675		26,675
20. Undistributed			
Total Other Procurement, Air Force	19,603,497	4,008,887	23,612,384

Department of the Air Force  
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 (Dollars in Thousands)

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Appropriation: 3080F Other 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*	
				Base + OCO	Base	with CR Adj	Base	with CR Adj	
Budget Activity 02: Vehicular Equipment									
Passenger Carrying Vehicles									
1	Passenger Carrying Vehicles	A		9,209		14,437		14,437	U
Cargo and Utility Vehicles									
2	Medium Tactical Vehicle	A		58,160		24,812		24,812	U
3	Cap Vehicles	A		1,700		984		984	U
4	Cargo and Utility Vehicles	A		12,483		11,191		122,191	U
Special Purpose Vehicles									
5	Security And Tactical Vehicles	A		1,684		5,361		40,361	U
6	Special Purpose Vehicles	A		9,102		4,623		39,623	U
Fire Fighting Equipment									
7	Fire Fighting/Crash Rescue Vehicles	A		10,419		12,451		106,451	U
Materials Handling Equipment									
8	Materials Handling Vehicles	A		24,160		18,114		116,114	U
Base Maintenance Support									
9	Runway Snow Remov & Cleaning Equip	A		6,855		2,310		72,310	U
10	Base Maintenance Support Vehicles	A		92,581		46,868		171,004	U
Total Vehicular Equipment				226,353		141,151		708,287	

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Appropriation: 3080F Other 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 e
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Vehicular Equipment											
-----											
Passenger Carrying Vehicles											
1	Passenger Carrying Vehicles	A		2,003		2,003				2,003	U
Cargo and Utility Vehicles											
2	Medium Tactical Vehicle	A		9,066		9,066				9,066	U
3	Cap Vehicles	A									U
4	Cargo and Utility Vehicles	A		12,264		12,264				12,264	U
Special Purpose Vehicles											
5	Security And Tactical Vehicles	A									U
6	Special Purpose Vehicles	A		16,789		16,789				16,789	U
Fire Fighting Equipment											
7	Fire Fighting/Crash Rescue Vehicles	A		48,590		48,590				48,590	U
Materials Handling Equipment											
8	Materials Handling Vehicles	A		2,366		2,366				2,366	U
Base Maintenance Support											
9	Runway Snow Remov & Cleaning Equip	A		6,468		6,468				6,468	U
10	Base Maintenance Support Vehicles	A		9,271		9,271				9,271	U
Total Vehicular Equipment				106,817		106,817				106,817	



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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	
Budget Activity 02: Vehicular Equipment											
Passenger Carrying Vehicles											
1	Passenger Carrying Vehicles	A		16,440		16,440				16,440	U
Cargo and Utility Vehicles											
2	Medium Tactical Vehicle	A		33,878		33,878				33,878	U
3	Cap Vehicles	A		984		984				984	U
4	Cargo and Utility Vehicles	A		23,455		134,455				134,455	U
Special Purpose Vehicles											
5	Security And Tactical Vehicles	A		5,361		40,361				40,361	U
6	Special Purpose Vehicles	A		21,412		56,412				56,412	U
Fire Fighting Equipment											
7	Fire Fighting/Crash Rescue Vehicles	A		61,041		155,041				155,041	U
Materials Handling Equipment											
8	Materials Handling Vehicles	A		20,480		118,480				118,480	U
Base Maintenance Support											
9	Runway Snow Remov & Cleaning Equip	A		8,778		78,778				78,778	U
10	Base Maintenance Support Vehicles	A		56,139		180,275				180,275	U
Total Vehicular Equipment				247,968		815,104				815,104	

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Appropriation: 3080F Other 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 02: Vehicular Equipment									
-----									
Passenger Carrying Vehicles									
1	Passenger Carrying Vehicles	A		15,651		3,855		19,506	U
Cargo and Utility Vehicles									
2	Medium Tactical Vehicle	A		54,607				54,607	U
3	Cap Vehicles	A		1,011				1,011	U
4	Cargo and Utility Vehicles	A		28,670		1,882		30,552	U
Special Purpose Vehicles									
5	Security And Tactical Vehicles	A		59,398		1,100		60,498	U
6	Special Purpose Vehicles	A		19,784		32,479		52,263	U
Fire Fighting Equipment									
7	Fire Fighting/Crash Rescue Vehicles	A		14,768		22,583		37,351	U
Materials Handling Equipment									
8	Materials Handling Vehicles	A		13,561		5,353		18,914	U
Base Maintenance Support									
9	Runway Snow Remov & Cleaning Equip	A		3,429		11,315		14,744	U
10	Base Maintenance Support Vehicles	A		60,075		40,451		100,526	U
Total Vehicular Equipment				270,954		119,018		389,972	

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Appropriation: 3080F Other 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	
Budget Activity 03: Electronics and Telecommunications Equip									
-----									
Comm Security Equipment(Comsec)									
11	Comsec Equipment	A		136,998		72,359		80,359	U
12	Modifications (COMSEC)	A		677					U
Intelligence Programs									
13	International Intel Tech & Architectures	A							U
14	Intelligence Training Equipment	A		4,041		6,982		6,982	U
15	Intelligence Comm Equipment	A		29,272		30,504		30,504	U
Electronics Programs									
16	Air Traffic Control & Landing Sys	A		28,823		55,803		79,203	U
17	National Airspace System	A		5,833		2,673		2,673	U
18	Battle Control System - Fixed	A		2,018		5,677		5,677	U
19	Theater Air Control Sys Improvements	A		22,710		1,163		1,163	U
20	Weather Observation Forecast	A		21,511		21,667		21,667	U
21	Strategic Command And Control	A		286,980		39,803		39,803	U
22	Cheyenne Mountain Complex	A		36,186		24,618		24,618	U
23	Mission Planning Systems	A		14,456		15,868		15,868	U
24	Drug Interdiction Spt	A		9,797					U
25	Integrated Strat Plan & Analy Network (ISPAN)	A		9,597		9,331		9,331	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 03: Electronics and Telecommunications Equip											
-----											
Comm Security Equipment(Comsec)											
11	Comsec Equipment	A									U
12	Modifications (COMSEC)	A									U
Intelligence Programs											
13	International Intel Tech & Architectures	A									U
14	Intelligence Training Equipment	A									U
15	Intelligence Comm Equipment	A									U
Electronics Programs											
16	Air Traffic Control & Landing Sys	A		42,650		42,650				42,650	U
17	National Airspace System	A									U
18	Battle Control System - Fixed	A									U
19	Theater Air Control Sys Improvements	A									U
20	Weather Observation Forecast	A									U
21	Strategic Command And Control	A									U
22	Cheyenne Mountain Complex	A									U
23	Mission Planning Systems	A									U
24	Drug Interdiction Spt	A									U
25	Integrated Strat Plan & Analy Network (ISPAN)	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	
Budget Activity 03: Electronics and Telecommunications Equip											
-----											
Comm Security Equipment(Comsec)											
11	Comsec Equipment	A		72,359		80,359				80,359	U
12	Modifications (COMSEC)	A									U
Intelligence Programs											
13	International Intel Tech & Architectures	A									U
14	Intelligence Training Equipment	A		6,982		6,982				6,982	U
15	Intelligence Comm Equipment	A		30,504		30,504				30,504	U
Electronics Programs											
16	Air Traffic Control & Landing Sys	A		98,453		121,853				121,853	U
17	National Airspace System	A		2,673		2,673				2,673	U
18	Battle Control System - Fixed	A		5,677		5,677				5,677	U
19	Theater Air Control Sys Improvements	A		1,163		1,163				1,163	U
20	Weather Observation Forecast	A		21,667		21,667				21,667	U
21	Strategic Command And Control	A		39,803		39,803				39,803	U
22	Cheyenne Mountain Complex	A		24,618		24,618				24,618	U
23	Mission Planning Systems	A		15,868		15,868				15,868	U
24	Drug Interdiction Spt	A									U
25	Integrated Strat Plan & Analy Network (ISPAN)	A		9,331		9,331				9,331	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	
Budget Activity 03: Electronics and Telecommunications Equip									
-----									
Comm Security Equipment(Comsec)									
11	Comsec Equipment	A		115,000				115,000	U
12	Modifications (COMSEC)	A							U
Intelligence Programs									
13	International Intel Tech & Architectures	A		22,335		8,873		31,208	U
14	Intelligence Training Equipment	A		5,892				5,892	U
15	Intelligence Comm Equipment	A		34,072		2,000		36,072	U
Electronics Programs									
16	Air Traffic Control & Landing Sys	A		66,143		56,500		122,643	U
17	National Airspace System	A		12,641				12,641	U
18	Battle Control System - Fixed	A		6,415				6,415	U
19	Theater Air Control Sys Improvements	A		23,233		4,970		28,203	U
20	Weather Observation Forecast	A		40,116				40,116	U
21	Strategic Command And Control	A		72,810				72,810	U
22	Cheyenne Mountain Complex	A		9,864				9,864	U
23	Mission Planning Systems	A		15,486				15,486	U
24	Drug Interdiction Spt	A							U
25	Integrated Strat Plan & Analy Network (ISPAN)	A		9,187				9,187	U

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Appropriation: 3080F Other 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*	
				Base + OCO			with CR Adj	Base	
Spcl Comm-Electronics Projects									
26	General Information Technology	A		31,952		41,779		41,779	U
27	AF Global Command & Control Sys	A		7,212		15,729		15,729	U
28	Mobility Command and Control	A		13,062		9,814		9,814	U
29	Air Force Physical Security System	A		98,533		99,460		244,060	U
30	Combat Training Ranges	A		28,106		34,850		34,850	U
31	Minimum Essential Emergency Comm N	A		5,232		198,925		198,925	U
32	Wide Area Surveillance (WAS)					6,943		6,943	U
33	C3 Countermeasures	A		7,453		19,580		19,580	U
34	GCSS-AF Fos	A		5,296		1,743		1,743	U
35	Defense Enterprise Accounting and Mgmt System	A		4,755					U
36	Theater Battle Mgt C2 System	A		7,473		9,659		9,659	U
37	Air & Space Operations Ctr-WPN SYS	A		9,993		15,474		15,474	U
38	Air Operations Center (AOC) 10.2			14,846		30,623		30,623	U
39	Spectrum Relocation Fund	A		19,298					U
Air Force Communications									
40	Base Information Transpt Infrast (BITI) Wired	A		74,621		40,043		40,043	U
41	AFNET	A		98,143		146,897		146,897	U
42	Joint Communications Support Element (JCSE)	A		5,199		5,182		5,182	U
43	USCENTCOM	A		25,780		13,418		13,418	U

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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 e
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Spcl Comm-Electronics Projects											
26	General Information Technology	A									U
27	AF Global Command & Control Sys	A									U
28	Mobility Command and Control	A									U
29	Air Force Physical Security System	A		7,500		83,500				83,500	U
30	Combat Training Ranges	A									U
31	Minimum Essential Emergency Comm N	A									U
32	Wide Area Surveillance (WAS)										U
33	C3 Countermeasures	A		620		620				620	U
34	GCSS-AF Fos	A									U
35	Defense Enterprise Accounting and Mgmt System	A									U
36	Theater Battle Mgt C2 System	A									U
37	Air & Space Operations Ctr-WPN SYS	A									U
38	Air Operations Center (AOC) 10.2										U
39	Spectrum Relocation Fund	A									U
Air Force Communications											
40	Base Information Transpt Infrast (BITI) Wired	A									U
41	AFNET	A									U
42	Joint Communications Support Element (JCSE)	A									U
43	USCENTCOM	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	
Spcl Comm-Electronics Projects											
26	General Information Technology	A		41,779		41,779				41,779	U
27	AF Global Command & Control Sys	A		15,729		15,729				15,729	U
28	Mobility Command and Control	A		9,814		9,814				9,814	U
29	Air Force Physical Security System	A		106,960		327,560				327,560	U
30	Combat Training Ranges	A		34,850		34,850				34,850	U
31	Minimum Essential Emergency Comm N	A		198,925		198,925				198,925	U
32	Wide Area Surveillance (WAS)			6,943		6,943				6,943	U
33	C3 Countermeasures	A		20,200		20,200				20,200	U
34	GCSS-AF Fos	A		1,743		1,743				1,743	U
35	Defense Enterprise Accounting and Mgmt System	A									U
36	Theater Battle Mgt C2 System	A		9,659		9,659				9,659	U
37	Air & Space Operations Ctr-WPN SYS	A		15,474		15,474				15,474	U
38	Air Operations Center (AOC) 10.2			30,623		30,623				30,623	U
39	Spectrum Relocation Fund	A									U
Air Force Communications											
40	Base Information Transpt Infrast (BITI) Wired	A		40,043		40,043				40,043	U
41	AFNET	A		146,897		146,897				146,897	U
42	Joint Communications Support Element (JCSE)	A		5,182		5,182				5,182	U
43	USCENTCOM	A		13,418		13,418				13,418	U

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 4, 2017 at 10:02:54

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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	
Spcl Comm-Electronics Projects									
26	General Information Technology	A		51,826				51,826	U
27	AF Global Command & Control Sys	A		3,634				3,634	U
28	Mobility Command and Control	A		10,083				10,083	U
29	Air Force Physical Security System	A		201,866		3,000		204,866	U
30	Combat Training Ranges	A		115,198				115,198	U
31	Minimum Essential Emergency Comm N	A		292				292	U
32	Wide Area Surveillance (WAS)			62,087				62,087	U
33	C3 Countermeasures	A		37,764				37,764	U
34	GCSS-AF Fos	A		2,826				2,826	U
35	Defense Enterprise Accounting and Mgmt System	A		1,514				1,514	U
36	Theater Battle Mgt C2 System	A		9,646				9,646	U
37	Air & Space Operations Ctr-WPN SYS	A		25,533				25,533	U
38	Air Operations Center (AOC) 10.2								U
39	Spectrum Relocation Fund	A							U
Air Force Communications									
40	Base Information Transpt Infrast (BITI) Wired	A		28,159				28,159	U
41	AFNET	A		160,820				160,820	U
42	Joint Communications Support Element (JCSE)	A		5,135				5,135	U
43	USCENTCOM	A		18,719				18,719	U

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			Quantity	Cost	with CR Adj	Base	Total	PB Requests*	
			Base + OCO		with CR Adj	Base	with CR Adj		
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Organization and Base									
44	Tactical C-E Equipment	A		138,969		109,836		144,036	U
45	Combat Survivor Evader Locator	A							U
46	Radio Equipment	A		8,400		16,266		16,266	U
47	CCTV/Audiovisual Equipment	A		6,144		7,449		7,449	U
48	Base Comm Infrastructure	A		83,730		109,215		169,715	U
Modifications									
49	Comm Elect Mods	A		78,650		65,700		65,700	U
Total Electronics and Telecommunications Equip				1,381,746		1,285,033		1,555,733	
Budget Activity 04: Other Base Maintenance and Support Equip									
-----									
Personal Safety & Rescue Equip									
50	Night Vision Goggles	A		5,950					U
51	Items Less Than \$5 Million	A		73,030		54,416		71,016	U
Depot Plant+Mtrls Handling Eq									
52	Mechanized Material Handling Equip	A		7,249		7,344		14,688	U
Base Support Equipment									
53	Base Procured Equipment	A		13,595		6,852		6,852	U
54	Engineering and EOD Equipment	A		56,806				221,000	U
55	Mobility Equipment	A		66,986		8,146		43,128	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Organization and Base											
44	Tactical C-E Equipment	A		8,100		8,100				8,100	U
45	Combat Survivor Evader Locater	A									U
46	Radio Equipment	A									U
47	CCTV/Audiovisual Equipment	A									U
48	Base Comm Infrastructure	A									U
Modifications											
49	Comm Elect Mods	A		3,800		3,800				3,800	U
Total Electronics and Telecommunications Equip				62,670		138,670				138,670	
Budget Activity 04: Other Base Maintenance and Support Equip											
Personal Safety & Rescue Equip											
50	Night Vision Goggles	A									U
51	Items Less Than \$5 Million	A									U
Depot Plant+Mtrls Handling Eq											
52	Mechanized Material Handling Equip	A									U
Base Support Equipment											
53	Base Procured Equipment	A									U
54	Engineering and EOD Equipment	A		53,900		53,900				53,900	U
55	Mobility Equipment	A									U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Organization and Base											
44	Tactical C-E Equipment	A		117,936		152,136				152,136	U
45	Combat Survivor Evader Locater	A									U
46	Radio Equipment	A		16,266		16,266				16,266	U
47	CCTV/Audiovisual Equipment	A		7,449		7,449				7,449	U
48	Base Comm Infrastructure	A		109,215		169,715				169,715	U
Modifications											
49	Comm Elect Mods	A		69,500		69,500				69,500	U
Total Electronics and Telecommunications Equip				1,347,703		1,694,403				1,694,403	
Budget Activity 04: Other Base Maintenance and Support Equip											
Personal Safety & Rescue Equip											
50	Night Vision Goggles	A									U
51	Items Less Than \$5 Million	A		54,416		71,016				71,016	U
Depot Plant+Mtrls Handling Eq											
52	Mechanized Material Handling Equip	A		7,344		14,688				14,688	U
Base Support Equipment											
53	Base Procured Equipment	A		6,852		6,852				6,852	U
54	Engineering and EOD Equipment	A		53,900		274,900				274,900	U
55	Mobility Equipment	A		8,146		43,128				43,128	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Organization and Base									
44	Tactical C-E Equipment	A		123,206				123,206	U
45	Combat Survivor Evader Locater	A		3,004				3,004	U
46	Radio Equipment	A		15,736				15,736	U
47	CCTV/Audiovisual Equipment	A		5,480				5,480	U
48	Base Comm Infrastructure	A		130,539		55,000		185,539	U
Modifications									
49	Comm Elect Mods	A		70,798				70,798	U
Total Electronics and Telecommunications Equip				1,517,059		130,343		1,647,402	
Budget Activity 04: Other Base Maintenance and Support Equip									
-----									
Personal Safety & Rescue Equip									
50	Night Vision Goggles	A							U
51	Items Less Than \$5 Million	A		52,964		8,469		61,433	U
Depot Plant+Mtrls Handling Eq									
52	Mechanized Material Handling Equip	A		10,381				10,381	U
Base Support Equipment									
53	Base Procured Equipment	A		15,038		7,500		22,538	U
54	Engineering and EOD Equipment	A		26,287		80,427		106,714	U
55	Mobility Equipment	A		8,470				8,470	U

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			Quantity	Cost	with CR Adj	Base	Total	PB Requests*	
							with CR Adj	Base	
56	Items Less Than \$5 Million	A		34,707		28,427		28,427	U
	Special Support Projects								
58	DARP RC135	A		23,973		25,287		25,287	U
59	DCGS-AF	A		177,021		169,201		197,655	U
61	Special Update Program	A		629,371		576,710		577,710	U
62	Defense Space Reconnaissance Prog.	A		128,724					U
999	Classified Programs			18,932,760		15,119,705		15,248,818	U
	Total Other Base Maintenance and Support Equip			20,150,172		15,996,088		16,434,581	
Budget Activity 05: Spares and Repair Parts									
-----									
Spares and Repair Parts									
64	Spares and Repair Parts	A				15,784		16,600	U
65	Spares And Repair Parts	A		59,863					U
	Total Spares and Repair Parts			59,863		15,784		16,600	
Budget Activity 20: Undistributed									
-----									
Undistributed									
66	Adj to Match Continuing Resolution	A				837,599		837,599	U
	Total Undistributed					837,599		837,599	
	Total Other Procurement, Air Force			21,818,134		18,275,655		19,552,800	

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
56	Items Less Than \$5 Million	A									U
	Special Support Projects										
58	DARP RC135	A									U
59	DCGS-AF	A		800		800				800	U
61	Special Update Program	A									U
62	Defense Space Reconnaissance Prog.	A									U
999	Classified Programs			3,472,094		3,745,891		-137,884		3,608,007	U
	Total Other Base Maintenance and Support Equip			3,526,794		3,800,591		-137,884		3,662,707	
Budget Activity 05: Spares and Repair Parts											
-----											
Spares and Repair Parts											
64	Spares and Repair Parts	A									U
65	Spares And Repair Parts	A									U
	Total Spares and Repair Parts			-----		-----		-----		-----	
Budget Activity 20: Undistributed											
-----											
Undistributed											
66	Adj to Match Continuing Resolution	A		-219,280		-219,280				-219,280	U
	Total Undistributed			-219,280		-219,280				-219,280	
	Total Other Procurement, Air Force			3,477,001		3,826,798		-137,884		3,688,914	



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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	
56	Items Less Than \$5 Million	A		28,427		28,427				28,427	U
	Special Support Projects										
58	DARP RC135	A		25,287		25,287				25,287	U
59	DCGS-AF	A		170,001		198,455				198,455	U
61	Special Update Program	A		576,710		577,710				577,710	U
62	Defense Space Reconnaissance Prog.	A									U
999	Classified Programs			18,729,683		18,994,709		-137,884		18,856,825	U
	Total Other Base Maintenance and Support Equip			19,660,766		20,235,172		-137,884		20,097,288	
Budget Activity 05: Spares and Repair Parts											
-----											
Spares and Repair Parts											
64	Spares and Repair Parts	A		15,784		16,600				16,600	U
65	Spares And Repair Parts	A									U
	Total Spares and Repair Parts			15,784		16,600				16,600	
Budget Activity 20: Undistributed											
-----											
Undistributed											
66	Adj to Match Continuing Resolution	A		618,319		618,319				618,319	U
	Total Undistributed			618,319		618,319				618,319	
	Total Other Procurement, Air Force			21,890,540		23,379,598		-137,884		23,241,714	

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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	
56	Items Less Than \$5 Million	A		28,768		110,405		139,173	U
	Special Support Projects								
58	DARP RC135	A		25,985		700		26,685	U
59	DCGS-AF	A		178,423		9,200		187,623	U
61	Special Update Program	A		840,980				840,980	U
62	Defense Space Reconnaissance Prog.	A							U
999	Classified Programs			16,601,513		3,542,825		20,144,338	U
	Total Other Base Maintenance and Support Equip			17,788,809		3,759,526		21,548,335	
	Budget Activity 05: Spares and Repair Parts								
	Spares and Repair Parts								
64	Spares and Repair Parts	A		26,675				26,675	U
65	Spares And Repair Parts	A							U
	Total Spares and Repair Parts			26,675				26,675	
	Budget Activity 20: Undistributed								
	Undistributed								
66	Adj to Match Continuing Resolution	A							U
	Total Undistributed								
	Total Other Procurement, Air Force			19,603,497		4,008,887		23,612,384	

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DARP RC135	846070	58	04	06.....	Volume 1 - 413
DCGS-AF	846080	59	04	06.....	Volume 1 - 419
Defense Enterprise Accounting and Mgmt System	834470	35	03	04.....	Volume 1 - 263
Defense Space Reconnaissance Prog.	846570	62	04	06.....	Volume 1 - 439
Drug Interdiction Spt	833440	24	03	03.....	Volume 1 - 169
ENGINEERING AND EOD EQUIPMENT	845100	54	04	05.....	Volume 1 - 403
FIRE FIGHTING/CRASH RESCUE VEHICLES	824010	7	02	04.....	Volume 1 - 39
GCSS-AF Fos	834430	34	03	04.....	Volume 1 - 261
General Information Technology	834010	26	03	04.....	Volume 1 - 173
Integrated Strat Plan & Analy Network (ISPAN)	833560	25	03	03.....	Volume 1 - 171
Intelligence Comm Equipment	832070	15	03	02.....	Volume 1 - 89
Intelligence Training Equipment	832060	14	03	02.....	Volume 1 - 87
International Intel Tech & Architectures	832050	13	03	02.....	Volume 1 - 81
Items Less Than \$5 Million	842990	51	04	02.....	Volume 1 - 387
Items Less Than \$5 Million	845990	56	04	05.....	Volume 1 - 409
Joint Communications Support Element (JCSE)	835110	42	03	05.....	Volume 1 - 305
Materials Handling Vehicles	825990	8	02	05.....	Volume 1 - 45

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<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
Mechanized Material Handling Equip	843050	52	04	03.....	Volume 1 - 397
Medium Tactical Vehicle	822230	2	02	02.....	Volume 1 - 3
Minimum Essential Emergency Comm N	834210	31	03	04.....	Volume 1 - 245
Mission Planning Systems	833170	23	03	03.....	Volume 1 - 165
Mobility Command and Control	834070	28	03	04.....	Volume 1 - 211
Mobility Equipment	845420	55	04	05.....	Volume 1 - 407
Modifications (COMSEC)	831970	12	03	01.....	Volume 1 - 79
National Airspace System	833020	17	03	03.....	Volume 1 - 121
Night Vision Goggles	842140	50	04	02.....	Volume 1 - 385
Passenger Carrying Vehicles	821800	1	02	01.....	Volume 1 - 1
Radio Equipment	837190	46	03	07.....	Volume 1 - 337
Runway Snow Remov & Cleaning Equip	826210	9	02	06.....	Volume 1 - 47
Security And Tactical Vehicles	823230	5	02	03.....	Volume 1 - 25
Spares and Repair Parts	861900	64-65	05	01.....	Volume 1 - 441
Special Purpose Vehicles	823990	6	02	03.....	Volume 1 - 31
Special Update Program	846510	61	04	06.....	Volume 1 - 437
Spectrum Relocation Fund	834880	39	03	04.....	Volume 1 - 279
Strategic Command And Control	833140	21	03	03.....	Volume 1 - 151
Tactical C-E Equipment	837100	44	03	07.....	Volume 1 - 309
Theater Air Control Sys Improvements	833040	19	03	03.....	Volume 1 - 133

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<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
Theater Battle Mgt C2 System	834520	36	03	04.....	Volume 1 - 267
USCENTCOM	835140	43	03	05.....	Volume 1 - 307
Weather Observation Forecast	833070	20	03	03.....	Volume 1 - 141
Wide Area Surveillance (WAS)	834240	32	03	04.....	Volume 1 - 247

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**Appropriation 3080F: Other Procurement, Air Force  
BA 02: Vehicular Equipment / BSA 1: Passenger Carrying Vehicles**

				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	821800	Passenger Carrying Vehicles	-	9.209	-	16.440	-	15.651	-	3.855	-	19.506
<b>Total: Vehicular Equipment / Passenger Carrying Vehicles</b>				-	9.209	-	16.440	-	15.651	-	3.855	-	19.506

**Appropriation 3080F: Other Procurement, Air Force  
BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles**

				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
2	A	822230	Medium Tactical Vehicle	-	58.160	-	33.878	-	54.607	-	0.000	-	54.607
3	A	822910	Cap Vehicles	-	1.700	-	0.984	-	1.011	-	0.000	-	1.011
4	A	822990	Cargo and Utility Vehicles	-	12.483	-	134.455	-	28.670	-	1.882	-	30.552
<b>Total: Vehicular Equipment / Cargo and Utility Vehicles</b>				-	72.343	-	169.317	-	84.288	-	1.882	-	86.170

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**Appropriation 3080F: Other Procurement, Air Force  
BA 02: Vehicular Equipment / BSA 3: Special Purpose Vehicles**

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
5	A	823230	Security And Tactical Vehicles	-	1.684	-	40.361	-	59.398	-	1.100	-	60.498
6	A	823990	Special Purpose Vehicles	-	9.102	-	56.412	-	19.784	-	32.479	-	52.263
<b>Total: Vehicular Equipment / Special Purpose Vehicles</b>				-	10.786	-	96.773	-	79.182	-	33.579	-	112.761

**Appropriation 3080F: Other Procurement, Air Force  
BA 02: Vehicular Equipment / BSA 4: Fire Fighting 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
7	A	824010	FIRE FIGHTING/CRASH RESCUE VEHICLES	-	10.419	-	155.041	-	14.768	-	22.583	-	37.351

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**Appropriation 3080F: Other Procurement, Air Force  
BA 02: Vehicular Equipment / BSA 4: Fire Fighting 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
<b>Total: Vehicular Equipment / Fire Fighting Equipment</b>				-	10.419	-	155.041	-	14.768	-	22.583	-	37.351

**Appropriation 3080F: Other Procurement, Air Force  
BA 02: Vehicular Equipment / BSA 5: Materials Handling 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
8	A	825990	Materials Handling Vehicles	-	24.160	-	118.480	-	13.561	-	5.353	-	18.914
<b>Total: Vehicular Equipment / Materials Handling Equipment</b>				-	24.160	-	118.480	-	13.561	-	5.353	-	18.914

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**Appropriation 3080F: Other Procurement, Air Force  
BA 02: Vehicular Equipment / BSA 6: Base Maintenance 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
9	A	826210	Runway Snow Remov & Cleaning Equip	-	6.855	-	78.778	-	3.429	-	11.315	-	14.744
10	A	826990	Base Maintenance Support Vehicles	-	92.581	-	180.275	-	60.075	-	40.451	-	100.526
<b>Total: Vehicular Equipment / Base Maintenance Support</b>				-	99.436	-	259.053	-	63.504	-	51.766	-	115.270

**Appropriation 3080F: Other Procurement, Air Force  
BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)**

				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
11	A	831010	Comsec Equipment	-	136.998	-	80.359	-	115.000	-	0.000	-	115.000
12	A	831970	Modifications (COMSEC)	-	0.677	-	0.000	-	0.000	-	0.000	-	0.000

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**Appropriation 3080F: Other Procurement, Air Force**

**BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)**

				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
<b>Total:</b> Electronics and Telecommunications Equip / Comm Security Equipment(Comsec)				-	137.675	-	80.359	-	115.000	-	0.000	-	115.000

**Appropriation 3080F: Other Procurement, Air Force**

**BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs**

				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
13	A	832050	International Intel Tech & Architectures	-	0.000	-	0.000	-	22.335	-	8.873	-	31.208
14	A	832060	Intelligence Training Equipment	-	4.041	-	6.982	-	5.892	-	0.000	-	5.892
15	A	832070	Intelligence Comm Equipment	-	29.272	-	30.504	-	34.072	-	2.000	-	36.072

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**Appropriation 3080F: Other Procurement, Air Force**  
**BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs**

				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
<b>Total: Electronics and Telecommunications Equip / Intelligence Programs</b>				-	33.313	-	37.486	-	62.299	-	10.873	-	73.172

**Appropriation 3080F: Other Procurement, Air Force**  
**BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs**

				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
16	A	833010	Air Traffic Control & Landing Sys	-	28.823	-	121.853	-	66.143	-	56.500	-	122.643
17	A	833020	National Airspace System	-	5.833	-	2.673	-	12.641	-	0.000	-	12.641
18	A	833030	Battle Control System - Fixed	-	2.018	-	5.677	-	6.415	-	0.000	-	6.415
19	A	833040	Theater Air Control Sys Improvements	-	22.710	-	1.163	-	23.233	-	4.970	-	28.203

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**Appropriation 3080F: Other Procurement, Air Force**  
**BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs**

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
20	A	833070	Weather Observation Forecast	-	21.511	-	21.667	-	40.116	-	0.000	-	40.116
21	A	833140	Strategic Command And Control	-	286.980	-	39.803	-	72.810	-	0.000	-	72.810
22	A	833160	Cheyenne Mountain Complex	-	36.186	-	24.618	-	9.864	-	0.000	-	9.864
23	A	833170	Mission Planning Systems	-	14.456	-	15.868	-	15.486	-	0.000	-	15.486
24	A	833440	Drug Interdiction Spt	-	9.797	-	0.000	-	0.000	-	0.000	-	0.000
25	A	833560	Integrated Strat Plan & Analy Network (ISPAN)	-	9.597	-	9.331	-	9.187	-	0.000	-	9.187
<b>Total: Electronics and Telecommunications Equip / Electronics Programs</b>				-	437.911	-	242.653	-	255.895	-	61.470	-	317.365

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**Appropriation 3080F: Other Procurement, Air Force**  
**BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects**

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
26	A	834010	General Information Technology	-	31.952	-	41.779	-	51.826	-	0.000	-	51.826
27	A	834040	AF Global Command & Control Sys	-	7.212	-	15.729	-	3.634	-	0.000	-	3.634
28	A	834070	Mobility Command and Control	-	13.062	-	9.814	-	10.083	-	0.000	-	10.083
29	A	834130	Air Force Physical Security System	-	98.533	-	327.560	-	201.866	-	3.000	-	204.866
30	A	834190	Combat Training Ranges	-	28.106	-	34.850	-	115.198	-	0.000	-	115.198
31	A	834210	Minimum Essential Emergency Comm N	-	5.232	-	198.925	-	0.292	-	0.000	-	0.292
32	A	834240	Wide Area Surveillance (WAS)	-	0.000	-	6.943	-	62.087	-	0.000	-	62.087
33	A	834320	C3 Countermeasures	-	7.453	-	20.200	-	37.764	-	0.000	-	37.764
34	A	834430	GCSS-AF Fos	-	5.296	-	1.743	-	2.826	-	0.000	-	2.826
35	A	834470	Defense Enterprise Accounting and Mgmt System	-	4.755	-	0.000	-	1.514	-	0.000	-	1.514

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**Appropriation 3080F: Other Procurement, Air Force**  
**BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects**

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
36	A	834520	Theater Battle Mgt C2 System	-	7.473	-	9.659	-	9.646	-	0.000	-	9.646
37	A	834530	Air & Space Operations Ctr-WPN SYS	-	9.993	-	15.474	-	25.533	-	0.000	-	25.533
38	A	834560	Air Operations Center (AOC) 10.2	-	14.846	-	30.623	-	0.000	-	0.000	-	0.000
39	A	834880	Spectrum Relocation Fund	-	19.298	-	0.000	-	0.000	-	0.000	-	0.000
<b>Total: Electronics and Telecommunications Equip / Spcl Comm-Electronics Projects</b>				-	253.211	-	713.299	-	522.269	-	3.000	-	525.269

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**Appropriation 3080F: Other Procurement, Air Force**  
**BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications**

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
40	A	835060	Base Information Transpt Infrast (BITI) Wired	-	74.621	-	40.043	-	28.159	-	0.000	-	28.159
41	A	835080	AFNET	-	98.143	-	146.897	-	160.820	-	0.000	-	160.820
42	A	835110	Joint Communications Support Element (JCSE)	-	5.199	-	5.182	-	5.135	-	0.000	-	5.135
43	A	835140	USCENTCOM	-	25.780	-	13.418	-	18.719	-	0.000	-	18.719
<b>Total: Electronics and Telecommunications Equip / Air Force Communications</b>				-	203.743	-	205.540	-	212.833	-	0.000	-	212.833

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**Appropriation 3080F: Other Procurement, Air Force  
BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base**

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
44	A	837100	Tactical C-E Equipment	-	138.969	-	152.136	-	123.206	-	0.000	-	123.206
45	A	837170	Combat Survivor Evader Locator	-	0.000	-	0.000	-	3.004	-	0.000	-	3.004
46	A	837190	Radio Equipment	-	8.400	-	16.266	-	15.736	-	0.000	-	15.736
47	A	837240	CCTV/Audiovisual Equipment	-	6.144	-	7.449	-	5.480	-	0.000	-	5.480
48	A	837300	Base Comm Infrastructure	-	83.730	-	169.715	-	130.539	-	55.000	-	185.539
<b>Total: Electronics and Telecommunications Equip / Organization and Base</b>				-	237.243	-	345.566	-	277.965	-	55.000	-	332.965

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**Appropriation 3080F: Other Procurement, Air Force  
BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications**

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
49	A	838010	Comm Elect Mods	-	78.650	-	69.500	-	70.798	-	0.000	-	70.798
<b>Total: Electronics and Telecommunications Equip / Modifications</b>				-	78.650	-	69.500	-	70.798	-	0.000	-	70.798

**Appropriation 3080F: Other Procurement, Air Force  
BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip**

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
50	A	842140	Night Vision Goggles	-	5.950	-	0.000	-	0.000	-	0.000	-	0.000
51	A	842990	Items Less Than \$5 Million	-	73.030	-	71.016	-	52.964	-	8.469	-	61.433

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**Appropriation 3080F: Other Procurement, Air Force**  
**BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip**

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
<b>Total: Other Base Maintenance and Support Equip / Personal Safety &amp; Rescue Equip</b>				-	78.980	-	71.016	-	52.964	-	8.469	-	61.433

**Appropriation 3080F: Other Procurement, Air Force**  
**BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq**

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
52	A	843050	Mechanized Material Handling Equip	-	7.249	-	14.688	-	10.381	-	0.000	-	10.381
<b>Total: Other Base Maintenance and Support Equip / Depot Plant +Mtrls Handling Eq</b>				-	7.249	-	14.688	-	10.381	-	0.000	-	10.381

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**Appropriation 3080F: Other Procurement, Air Force**  
**BA 04: Other Base Maintenance and Support Equip / BSA 5: Base 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
53	A	845010	Base Procured Equipment	-	13.595	-	6.852	-	15.038	-	7.500	-	22.538
54	A	845100	ENGINEERING AND EOD EQUIPMENT	-	56.806	-	274.900	-	26.287	-	80.427	-	106.714
55	A	845420	Mobility Equipment	-	66.986	-	43.128	-	8.470	-	0.000	-	8.470
56	A	845990	Items Less Than \$5 Million	-	34.707	-	28.427	-	28.768	-	110.405	-	139.173
<b>Total: Other Base Maintenance and Support Equip / Base Support Equipment</b>				-	172.094	-	353.307	-	78.563	-	198.332	-	276.895

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**Appropriation 3080F: Other Procurement, Air Force**  
**BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects**

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
58	A	846070	DARP RC135	-	23.973	-	25.287	-	25.985	-	0.700	-	26.685
59	A	846080	DCGS-AF	-	177.021	-	198.455	-	178.423	-	9.200	-	187.623
61	A	846510	Special Update Program	-	629.371	-	577.710	-	840.980	-	0.000	-	840.980
62	A	846570	Defense Space Reconnaissance Prog.	-	128.724	-	0.000	-	0.000	-	0.000	-	0.000
<b>Total: Other Base Maintenance and Support Equip / Special Support Projects</b>				-	959.089	-	801.452	-	1,045.388	-	9.900	-	1,055.288

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 Exhibit P-1, Procurement Program  
 (Listing by Appropriation, then Line Number)

**Appropriation 3080F: Other Procurement, Air Force**  
**BA 05: Spares and Repair Parts / BSA 1: 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
64-65	A	861900	Spares and Repair Parts	-	59.863	-	16.600	-	26.675	-	0.000	-	26.675
<b>Total: Spares and Repair Parts / Spares And Repair Parts</b>				-	59.863	-	16.600	-	26.675	-	0.000	-	26.675

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

**Lookup Matrix by Model**

<b>Model:</b>	IBS		
<b>Modification P-40a Aggregated Items Title:</b>	Integrated Broadcast Service (IBS)		
<b>Item Number</b>	<b>Item Title</b>		<b>Applies to Multiple Models</b>
<b>Uncategorized</b>			
Mod 1 IBS	Mod 1 IBS		No
Mod 2	Mod 2		No
Mod 3	Mod 3		No
Mod 4	Mod 4		No
Mod 5	Mod 5		No

<b>Model:</b>	0301592F		
<b>Modification P-40a Aggregated Items Title:</b>	Military Intelligence Program (MIP) Activities		
<b>Item Number</b>	<b>Item Title</b>		<b>Applies to Multiple Models</b>
<b>Uncategorized</b>			
MIP1	JWICS		No

<b>Model:</b>	NA		
<b>Modification P-40a Aggregated Items Title:</b>	Network-Centric Collaborative Targeting		
<b>Item Number</b>	<b>Item Title</b>		<b>Applies to Multiple Models</b>
<b>Uncategorized</b>			
NCCT1	Replacement of Ground Stations		No
<b>Modification P-40a Aggregated Items Title:</b>	Ballistic Missile Early Warning System (BMEWS)		
<b>Item Number</b>	<b>Item Title</b>		<b>Applies to Multiple Models</b>
<b>Uncategorized</b>			

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Exhibit P-1M, Procurement Programs - Modification Summary  
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<b>Model:</b>	NA	
<b>Modification P-40a Aggregated Items Title:</b>	Ballistic Missile Early Warning System (BMEWS)	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
COBRA DANE Radar Mod	COBRA DANE Radar Mod	No
Mod HEMP	Mod HEMP	No
P-3A BMEWS Modification	BMEWS Modification	No
<b>Modification P-40a Aggregated Items Title:</b>	Submarine-Launched Ballistic Missile (SLBM) Radar Warning System	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
P-3A PAVE PAWS Modifications	P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End)	No
PAVE PAWS Block 00 Update	BPP Block 00 SAPS ES	No
<b>Modification P-40a Aggregated Items Title:</b>	Ballistic Missile Early Warning System (BMEWS)	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
BMEWS	BMEWS DP SP	No
BMEWS2	BMEWS Block 02	No
<b>Modification P-40a Aggregated Items Title:</b>	Submarine-Launched Ballistic Missile (SLBM) Radar Warning System	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
PARCSB0	PARCS Block 00	No
PARCSB1	PARCS Block 01	No
PPB02	Pave Paws Block 02	No

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

<b>Model:</b>	<b>OMMOD</b>		
<b>Modification P-40a Aggregated Items Title:</b>	<b>TACSI Mods</b>		
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>	
<b>Uncategorized</b>			
TYQ23A	AN/TYQ23A OM MOD	No	

<b>Model:</b>	<b>CRCPhase1</b>		
<b>P-3a Individual Modifications</b>			
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>	
1	CRC Phase 1	No	

<b>Model:</b>	<b>NWM</b>		
<b>Modification P-40a Aggregated Items Title:</b>	<b>WOF</b>		
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>	
<b>Uncategorized</b>			
WOF2	Numerical Weather Modeling (NWM)	No	

<b>Model:</b>	<b>CAMIS</b>		
<b>Modification P-40a Aggregated Items Title:</b>	<b>Service Academies</b>		
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>	
<b>Uncategorized</b>			
CAMIS	Cadet Administration Management Information System	No	

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 (Listing by Model)

<b>Model:</b>	<b>Bases</b>	
<b>Modification P-40a Aggregated Items Title:</b>	<b>Base Physical Security Systems</b>	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
EUJUON	EUCOM JUON	No
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
1	Base Physical Security Systems	No
2	Counter small - UAS	No
3	IBDSS-1	No

<b>Model:</b>	<b>JointThreatEmitter</b>	
<b>Modification P-40a Aggregated Items Title:</b>	<b>Combat Training Range Equipment</b>	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
CTR01	Combat Training Ranges Joint Threat Emitter	No

<b>Model:</b>	<b>CombatTrainingRange</b>	
<b>Modification P-40a Aggregated Items Title:</b>	<b>Combat Training Range Equipment</b>	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
CTR02	CEAR UMTE Mod	No
CTR03	CEAR Mini MUTES Mod	No

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(Listing by Model)

<b>Model:</b>	BITI	
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
1	BITI Mod/Recaps	No

<b>Model:</b>	ACD-AFINC-CSCS	
<b>Modification P-40a Aggregated Items Title:</b>	AF Network Ops and Command Comms	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
AFNET Ops and Command Comms	AFNET Ops and Command Comms	No

<b>Model:</b>	ACD	
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
1	ACD WS 0208088F	No

<b>Model:</b>	AFINC-CSCS-WS	
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
1	AFINC/CSCS WS 0303089	No

<b>Model:</b>	AFNET	
<b>Modification P-40a Aggregated Items Title:</b>	Air Force Communications (AIRCOM)	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		

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<b>Model:</b>	AFNET	
<b>Modification P-40a Aggregated Items Title:</b>	Air Force Communications (AIRCOM)	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
Mod 1 0303112F	AFNET	No

<b>Model:</b>	ANFMQ7	
<b>Modification P-40a Aggregated Items Title:</b>	Weather Service	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
08-001	AN/FMQ-7 Solar Optical Observing Network (SOON)	No

<b>Model:</b>	ANUMQ13	
<b>Modification P-40a Aggregated Items Title:</b>	Weather Service	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
09-001	AN/UMQ-13 MARK IV-B	No

<b>Model:</b>	WSR-88D	
<b>Modification P-40a Aggregated Items Title:</b>	Weather Service	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
14-001	Next Generation Radar (NEXRAD) WSR-88D IT Refresh	No

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

<b>Model:</b>	ANFRR95		
<b>Modification P-40a Aggregated Items Title:</b>	Weather Service		
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>	
<b>Uncategorized</b>			
14-007	Radio Solar Telescope Network Service Life Extension Program (RSTN SLEP)	Yes	

<b>Model:</b>	AF24U1		
<b>Modification P-40a Aggregated Items Title:</b>	Weather Service		
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>	
<b>Uncategorized</b>			
14-007	Radio Solar Telescope Network Service Life Extension Program (RSTN SLEP)	Yes	

<b>Model:</b>	JET		
<b>Modification P-40a Aggregated Items Title:</b>	Weather Service		
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>	
<b>Uncategorized</b>			
16-001	Joint Environmental Toolkit (JET) Refresh	No	

<b>Model:</b>	GRN-29		
<b>Modification P-40a Aggregated Items Title:</b>	Air Traffic Control, Approach, and Landing System (ATCALs)		
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>	
<b>Uncategorized</b>			
AN/GRN-29 Instrument Landing System	ATCALs AN/GRN-29 Instrument Landing System (PE 0305114F)	No	

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

<b>Model:</b>	TRN-48	
<b>Modification P-40a Aggregated Items Title:</b>	Air Traffic Control, Approach, and Landing System (ATCALs)	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
ATCALs	Deployable TACAN Retrofit/Refurbishment	No

<b>Model:</b>	ATCALs	
<b>Modification P-40a Aggregated Items Title:</b>	Air Traffic Control, Approach, and Landing System (ATCALs)	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
P-3A Low Cost Mods	ATCALs Low Cost Mods (PE 0305114F)	No

<b>Model:</b>	NASMod-1	
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
1	NAS Gen4 MOD	No

<b>Model:</b>	Raytheon	
<b>Modification P-40a Aggregated Items Title:</b>	Ballistic Missile Early Warning System (BMEWS)	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
<b>Uncategorized</b>		
P-3A BMEWS DP/ SP Suite Replacement	BMEWS DP/SP Suite Replacement	No

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

<b>Model:</b>	<b>Exelis</b>		
<b>Modification P-40a Aggregated Items Title:</b>	<b>Submarine-Launched Ballistic Missile (SLBM) Radar Warning System</b>		
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>	
<b>Uncategorized</b>			
P-3A PARCS Modifications	P-3A PARCS Modification (formerly PARCS PARSS)	No	
PARCS Block 00 Update	PARCS Block 00 Update	No	

<b>Model:</b>	<b>SEWS</b>		
<b>Modification P-40a Aggregated Items Title:</b>	<b>Shared Early Warning (SEW)</b>		
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>	
<b>Uncategorized</b>			
SEWS1	Shared Early Warning System (SEWS) Low Cost Mods	No	

<b>Model:</b>	<b>RC135</b>		
<b>P-3a Individual Modifications</b>			
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>	
1	DARP Modification	No	

<b>Model:</b>	<b>0305208F</b>		
<b>Modification P-40a Aggregated Items Title:</b>	<b>Distributed Common Ground/Surface Systems</b>		
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>	
<b>Uncategorized</b>			
DCGS1	Geospatial Intelligence Bulk Release (GB) 4.1	No	
DCGS13	NASIC	No	
DCGS4	Multi-Intelligence (Multi-INT)	No	

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

<b>Model:</b>	0305208F	
<b>Modification P-40a Aggregated Items Title:</b>	Distributed Common Ground/Surface Systems	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
DCGS5	Sensor Integration	No
DCGS6	System Release (SR) 3.0	No
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
2	Network Infrastructure Transformation	No
3	Signals Intelligence (SIGINT)	No
4	DCGS Reference Imagery Transition (DRT)	No

<b>Model:</b>	DCGS	
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
1	GEOINT Transformation (GEOINT)	No

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

**Funding (\$ M)**

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>Exhibit P-40a</b>										
Mod 1 IBS	5.258	1.548	3.741	3.354	0.000	3.354	-	-	-	-
Mod 2	6.275	3.167	3.167	3.133	0.000	3.133	-	-	-	-
Mod 3	2.572	0.816	1.298	1.463	0.000	1.463	-	-	-	-
Mod 4	4.165	2.102	2.370	2.276	0.000	2.276	-	-	-	-
Mod 5	2.933	5.473	1.873	3.057	0.000	3.057	-	-	-	-
JWICS	3.920	2.900	4.516	4.434	0.000	4.434	-	-	-	-
Replacement of Ground Stations	2.970	3.517	2.583	3.312	0.000	3.312	-	-	-	-
AN/TYQ23A OM MOD	-	22.710	1.163	4.450	-	4.450	-	-	-	-
Numerical Weather Modeling (NWM)	0.000	5.736	3.850	9.829	0.000	9.829	-	-	-	-
Cadet Administration Management Information System	-	-	3.300	9.103	-	9.103	-	-	-	-
EUCOM JUON	-	-	76.000	-	-	-	-	-	-	-
Combat Training Ranges Joint Threat Emitter	-	3.651	-	3.184	-	3.184	-	-	-	-
CEAR UMTE Mod	-	7.000	3.900	0.150	-	0.150	-	-	-	-
CEAR Mini MUTES Mod	-	-	-	0.150	-	0.150	-	-	-	-
AFNET Ops and Command Comms	-	49.049	-	-	-	-	-	-	-	-
AFNET	90.487	29.448	28.465	-	-	-	-	-	-	-
AN/FMQ-7 Solar Optical Observing Network (SOON)	-	-	1.000	-	-	-	-	-	-	-
AN/UMQ-13 MARK IV-B	6.756	0.000	1.000	1.500	-	1.500	-	-	-	-
Next Generation Radar (NEXRAD) WSR-88D IT Refresh	-	2.750	3.508	4.732	-	4.732	-	-	-	-
Radio Solar Telescope Network Service Life Extension Program (RSTN SLEP)	-	3.100	-	0.800	-	0.800	-	-	-	-

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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
Joint Environmental Toolkit (JET) Refresh	-	-	1.466	2.123	-	2.123	-	-	-	-
ATCALs AN/GRN-29 Instrument Landing System (PE 0305114F)	37.903	3.219	7.121	1.006	-	1.006	-	-	-	-
Deployable TACAN Retrofit/Refurbishment	-	-	3.800	-	-	-	-	-	-	-
ATCALs Low Cost Mods (PE 0305114F)	-	0.761	1.402	1.640	-	1.640	-	-	-	-
COBRA DANE Radar Mod	-	0.150	-	-	-	-	-	-	-	-
Mod HEMP	-	49.000	-	-	-	-	-	-	-	-
BMEWS DP/SP Suite Replacement	37.616	9.858	29.610	-	-	-	-	-	-	-
BMEWS Modification	3.565	0.100	-	-	-	-	-	-	-	-
P-3A PARCS Modification (formerly PARCS PARSS)	-	-	0.750	-	-	-	-	-	-	-
P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End)	-	-	1.553	-	-	-	-	-	-	-
PARCS Block 00 Update	-	-	4.240	-	-	-	-	-	-	-
BPP Block 00 SAPS ES	-	-	10.456	-	-	-	-	-	-	-
Shared Early Warning System (SEWS) Low Cost Mods	-	0.220	0.403	0.392	0.000	0.392	-	-	-	-
BMEWS DP SP	-	-	-	0.500	-	0.500	-	-	-	-
BMEWS Block 02	-	-	-	5.100	-	5.100	-	-	-	-
PARCS Block 00	-	-	-	9.104	-	9.104	-	-	-	-
PARCS Block 01	-	-	-	0.500	-	0.500	-	-	-	-
Pave Paws Block 02	-	-	-	0.300	-	0.300	-	-	-	-
Geospatial Intelligence Bulk Release (GB) 4.1	-	6.120	0.004	0.000	0.000	0.000	-	-	-	-
NASIC	-	-	0.800	0.000	1.800	1.800	-	-	-	-
Multi-Intelligence (Multi-INT)	-	15.616	11.032	6.732	0.000	6.732	-	-	-	-
Sensor Integration	-	8.762	20.179	6.038	0.000	6.038	-	-	-	-

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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
System Release (SR) 3.0	-	9.009	15.397	0.000	0.000	0.000	-	-	-	-
<b>Exhibit P-3a</b>										
CRC Phase 1	-	0.000	0.000	18.783	4.970	23.753	-	-	-	-
Base Physical Security Systems	-	63.291	18.613	34.408	0.000	34.408	-	-	-	-
Counter small - UAS	-	0.000	70.500	136.000	0.000	136.000	-	-	-	-
IBDSS-1	-	0.000	65.869	16.029	0.000	16.029	-	-	-	-
BITI Mod/Recaps	0.000	0.000	0.000	28.159	0.000	28.159	-	-	-	-
ACD WS 0208088F	-	0.000	7.736	30.914	0.000	30.914	-	-	-	-
AFINC/CSCS WS 0303089	-	17.309	105.586	129.906	0.000	129.906	-	-	-	-
NAS Gen4 MOD	-	-	1.519	12.718	0.000	12.718	-	-	-	-
DARP Modification	-	23.973	25.287	25.985	0.700	26.685	-	-	-	-
GEOINT Transformation (GEOINT)	-	14.478	8.085	18.796	0.000	18.796	-	-	-	-
Network Infrastructure Transformation	-	74.182	64.935	106.550	0.000	106.550	-	-	-	-
Signals Intelligence (SIGINT)	-	0.236	29.092	8.114	7.400	15.514	-	-	-	-
DCGS Reference Imagery Transition (DRT)	-	16.799	19.064	10.900	0.000	10.900	-	-	-	-
<b>Totals (Total Obligation Authority)</b>										
<b>Total Obligation Authority</b>	<b>204.420</b>	<b>456.050</b>	<b>666.233</b>	<b>665.624</b>	<b>14.870</b>	<b>680.494</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

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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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 1: Passenger Carrying Vehicles	<b>P-1 Line Item Number / Title:</b> 821800 / Passenger Carrying Vehicles
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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> )	-	9.209	16.440	15.651	3.855	19.506	12.997	17.573	18.128	18.709	-	112.562
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	9.209	16.440	15.651	3.855	19.506	12.997	17.573	18.128	18.709	-	112.562
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>9.209</b>	<b>16.440</b>	<b>15.651</b>	<b>3.855</b>	<b>19.506</b>	<b>12.997</b>	<b>17.573</b>	<b>18.128</b>	<b>18.709</b>	-	<b>112.562</b>

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

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

**Description:**

FY17 funding totals include \$2.003M appropriated for Overseas Contingency Operations.

Passenger Carrying Vehicles includes the procurement of sedans, station wagons, law enforcement sedans, ambulances and buses. These vehicles are general in nature, but they fulfill unique and distinct needs commensurate with their design.

Sedans are available in compact, mid-size, and large, and are used to support a variety of functions and missions at all levels of the Air Force. A portion of these sedans is dedicated for use by the Office of Special Investigations (OSI) and a portion is procured as chase cars used to support U-2 aircraft operations.

Station wagons are mid-sized vehicles which are primarily used to transport personnel and light cargo. They are mostly used in overseas locations and some high security areas located near missile installations. They are also used in the maintenance and flying operation areas to support aircraft sortie generation.

Law Enforcement Sedans (LE Sedans) come equipped with a heavy-duty component package for law enforcement and security missions. Security forces personnel use this type of vehicle for emergency response, traffic control, patrol duties, and base security operations.

Ambulances include both bus ambulances and modular ambulances that are used for medical evacuation operations. The bus ambulance is a 44 passenger bus converted to accommodate massive patient transport for medical emergency situations and humanitarian/disaster relief operations. The modular models are standard commercial ambulances that are available in 4x2 and 4x4 configurations. They are used for the movement of patients under field conditions, aircraft crash rescue operations, and routine transportation of patients to and from medical facilities.

Buses include a variety of commercial vehicles that support a broad range of mass transit requirements. Bus sizes range from the 16 passenger shuttle bus to the 52 passenger bus. These vehicles support Air Education and Training Command (AETC) training units, Air Force band organizations, protocol offices, and several other missions.

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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 1: Passenger Carrying Vehicles		<b>P-1 Line Item Number / Title:</b> 821800 / Passenger Carrying Vehicles
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

Funding for this exhibit contained in PEs: 0202834F, 0207142F, 0207597F, 0305202F, 0502834F, 0502844F, 0702831F,0804741F

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	163	305	197	27	224	0	0	0	0
	Total Obligation Authority	9.093	21.096	15.357	3.855	19.212	0.000	0.000	0.000	0.000
AFNG	Quantity	1	10	5	0	5	0	0	0	0
	Total Obligation Authority	0.116	0.221	0.190	0.000	0.190	0.000	0.000	0.000	0.000
AFR	Quantity	0	4	4	0	4	0	0	0	0
	Total Obligation Authority	0.000	0.123	0.104	0.000	0.104	0.000	0.000	0.000	0.000
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>164</b>	<b>319</b>	<b>206</b>	<b>27</b>	<b>233</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total Obligation Authority</b>	<b>9.209</b>	<b>21.440</b>	<b>15.651</b>	<b>3.855</b>	<b>19.506</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

**Justification:**

FY18 procurement dollars in the amount of \$15.651M will procure, but not be limited to, 206 vehicles in support of installation and unit mission requirements for Air Force personnel.

FY18 OCO dollars in the amount of \$3.855M will procure, but is not limited to, 27 vehicles in support of 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:**  
3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles

**P-1 Line Item Number / Title:**  
822230 / Medium Tactical Vehicle

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

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

Resource Summary	Prior Years	FY 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> )	-	58.160	33.878	54.607	0.000	54.607	37.514	35.324	36.905	37.844	-	294.232
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	58.160	33.878	54.607	0.000	54.607	37.514	35.324	36.905	37.844	-	294.232
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>58.160</b>	<b>33.878</b>	<b>54.607</b>	<b>0.000</b>	<b>54.607</b>	<b>37.514</b>	<b>35.324</b>	<b>36.905</b>	<b>37.844</b>	-	<b>294.232</b>

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

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

**Description:**

FY17 funding totals include \$9.066M appropriated for Overseas Contingency Operations.

In FY16, \$17.884M was used for Rapid Acquisition Authority for the Counter-Small UAS JEON.

The Family of Medium Tactical Vehicles (FMTV) has the capability to operate in austere and adverse terrain. These important tactical assets are used by Combat Communication Units, Air Support Operation Squadrons (ASOS), Explosive Ordnance Disposal units (EOD), and other tactical direct mission support units throughout the Air Force. FMTVs are a class of M-Series Vehicles.

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 PEs 0202834F, 0502834F, 0502844F, 0702831F, 0802834F.

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	272	219	307	0	307	0	0	0
	Total Obligation Authority	57.413	30.683	51.880	0.000	51.880	0.000	0.000	0.000
AFNG	Quantity	18	12	8	0	8	0	0	0
	Total Obligation Authority	0.672	1.980	1.698	0.000	1.698	0.000	0.000	0.000
AFR	Quantity	2	7	8	0	8	0	0	0
	Total Obligation Authority	0.075	1.215	1.029	0.000	1.029	0.000	0.000	0.000
<b>Total:</b>	<b>Quantity</b>	<b>292</b>	<b>238</b>	<b>323</b>	<b>0</b>	<b>323</b>	<b>0</b>	<b>0</b>	<b>0</b>

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles	<b>P-1 Line Item Number / Title:</b> 822230 / Medium Tactical Vehicle
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

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	58.160	33.878	54.607	0.000	54.607	0.000	0.000	0.000	0.000

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles **P-1 Line Item Number / Title:** 822230 / Medium Tactical Vehicle

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

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

Exhibits Schedule					Prior Years	FY 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	Medium Tactical Vehicle				- / -	- / 58.160	- / 33.878	- / 54.607	- / 0.000	- / 54.607
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 58.160	- / 33.878	- / 54.607	- / 0.000	- / 54.607

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

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

**Justification:**

FY18 procurement dollars in the amount of \$54.607M will procure, but is not limited to, 323 vehicles in support of the installation and unit mission requirements for Air Force personnel.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822230 / Medium Tactical Vehicle						Aggregated Items Title: Medium Tactical Vehicle								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
TRK, CGO, MTV, M1083A1P2, W/ OUT WINCH (2320-01-549-8610) (1)	A		-	-	-	-	-	-	202,000.00	1	0.202	274,658.00	23	6.317	-	-	-	274,658.00	23	6.317
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		1	0.202		21	5.768	-	-	-		21	5.768
AFNG			-	-	-	-	-	-		-	-		2	0.549	-	-	-		2	0.549
TRK, CGO, LMTV, M1078A1P2, W/ OUT WINCH (2320-01-549-8577)	A		-	-	-	-	-	-	145,000.00	4	0.580	175,055.00	107	18.731	-	-	-	175,055.00	107	18.731
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		4	0.580		105	18.381	-	-	-		105	18.381
AFNG			-	-	-	-	-	-		-	-		2	0.350	-	-	-		2	0.350
TRK TRACTOR, M1070 (2320-01-318-9902)	A		-	-	-	-	-	-	396,000.00	1	0.396	399,594.00	1	0.400	-	-	-	399,594.00	1	0.400
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		1	0.396		1	0.400	-	-	-		1	0.400
TRK CUCV CGO (2320-01-123-2671) (2)	A		-	-	-	-	-	-	34,166.00	55	1.879	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		55	1.879		-	-	-	-	-		-	-
TRK CGO 6X6 (2320-01-354-3385) (3)	A		-	-	-	-	-	-	227,534.20	50	11.377	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		48	10.922		-	-	-	-	-		-	-
AFNG			-	-	-	-	-	-		2	0.455		-	-	-	-	-		-	-
TRK CGO 6X6 (2320-01-354-3386) (4)	A		-	-	-	-	-	-	271,800.00	12	3.262	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		9	2.446		-	-	-	-	-		-	-
AFNG			-	-	-	-	-	-		3	0.815		-	-	-	-	-		-	-
TRUCK, DUMP (2320-01-552-7787)	A		-	-	-	-	-	-	269,000.00	20	5.380	450,599.00	16	7.210	-	-	-	450,599.00	16	7.210
<i>Secondary Distribution</i>																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822230 / Medium Tactical Vehicle						Aggregated Items Title: Medium Tactical Vehicle								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
AF			-	-	-	-	-	-	20	5.380		16	7.210		-	-		16	7.210	
TRUCK DUMP (2320-01-354-4529)	A		-	-	-	-	-	400,500.00	2	0.801		-	-		-	-		-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-		2	0.801		-	-		-	-		-	-	
TRK, WRECKER, M1089A1P2 W/WINCH (2320-01-552-7762) (5)	A		-	-	428,600.00	118	50.575	429,000.00	11	4.719	449,680.00	15	6.745		-	-		449,680.00	15	6.745
<i>Secondary Distribution</i>																				
AF			-	-		118	50.575		11	4.719		15	6.745		-	-		15	6.745	
TRK WRECKER (2320-01-354-4528)	A		-	-	-	-	-	665,000.00	2	1.330	680,547.00	8	5.444		-	-		680,547.00	8	5.444
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-		1	0.665		7	4.764		-	-		7	4.764	
AFNG			-	-	-	-	-		1	0.665		1	0.681		-	-		1	0.681	
TRK, CGO, MTV, M1078A1P2, W/ OUT WINCH (2320-01-549-8611) (6)	A		-	-	-	-	-	173,500.00	7	1.215	175,450.00	17	2.983		-	-		175,450.00	17	2.983
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-		-	-		12	2.105		-	-		12	2.105	
AFR			-	-	-	-	-		7	1.215		5	0.877		-	-		5	0.877	
TLR TK WTR, M149A1 (2330-00-060-6511)	A		-	-	37,341.00	150	5.601	38,000.00	13	0.494	40,017.00	45	1.801		-	-		40,017.00	45	1.801
<i>Secondary Distribution</i>																				
AF			-	-		130	4.854		13	0.494		45	1.801		-	-		45	1.801	
AFNG			-	-		18	0.672		-	-		-	-		-	-		-	-	
AFR			-	-		2	0.075		-	-		-	-		-	-		-	-	
TLR, ISO CONTAINER M872 (2330-01-142-1385)	A		-	-	-	-	-	70,500.00	10	0.705	71,280.00	20	1.426		-	-		71,280.00	20	1.426
<i>Secondary Distribution</i>																				
AF			-	-		-	-		10	0.705		18	1.283		-	-		18	1.283	
AFR			-	-		-	-		-	-		2	0.143		-	-		2	0.143	
TLR, 5T FLATBED, M843 (2330-00-210-8935) (7)	A		-	-	-	-	-	10,100.00	26	0.263	12,423.00	4	0.050		-	-		12,423.00	4	0.050

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 02 / 2 **P-1 Line Item Number / Title:** 822230 / Medium Tactical Vehicle **Aggregated Items Title:** Medium Tactical Vehicle

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		-		26	0.263		2	0.025		-	-		2	0.025	
AFNG				-	-		-		-	-		2	0.025		-	-		2	0.025	
TLR, 2.5T CHS, M200 (2330-00-540-3950)	A		-	-	18,646.00	2	0.037	7,500.00	10	0.075	8,810.00	17	0.150		-	-	8,810.00	17	0.150	
<i>Secondary Distribution</i>																				
AF				-	-	2	0.037		4	0.030		16	0.141		-	-		16	0.141	
AFNG				-	-		-		6	0.045		-	-		-	-		-	-	
AFR				-	-		-		-	-		1	0.009		-	-		1	0.009	
DOLLY SET (2330-01-378-9997)	A		-	-	88,489.00	22	1.947	92,000.00	13	1.196	93,660.00	17	1.592		-	-	93,660.00	17	1.592	
<i>Secondary Distribution</i>																				
AF				-	-	22	1.947		13	1.196		16	1.499		-	-		16	1.499	
AFNG				-	-		-		-	-		1	0.094		-	-		1	0.094	
M871, TRLR ISO CONTAINER (2330-01-226-0701)	A		-	-	-	-	-	-	-	-	53,254.00	33	1.757		-	-	53,254.00	33	1.757	
<i>Secondary Distribution</i>																				
AF				-	-	-	-		-	-		33	1.757		-	-		33	1.757	
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	5,000.00	1	0.005		-	-	0.002		-	0.000		-	0.002
<i>Secondary Distribution</i>																				
AF				-	-		-		1	0.005		-	-	0.002		-	0.000		-	0.002
<b>Subtotal: Uncategorized</b>			-	-	-	-	58.160	-	-	33.878	-	-	54.607	-	-	0.000	-	-	54.607	
<b>Total</b>			-	-	-	-	58.160	-	-	33.878	-	-	54.607	-	-	0.000	-	-	54.607	

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

**Remarks:**  
 Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.  
 Unit costs and quantities for FY18 are subject to change.  
 PMA Justification:  
 -- PROGRAM MANAGEMENT ADMINISTRATION (PMA): PMA supports the operation of the program office in its management and oversight role via travel, procurement of supplies and Advisory and administrative Services (A&AS).  
 In FY16, \$17.884M was used for Rapid Acquisition Authority for the Counter-Small UAS JEON.

**Footnotes:**  
 (1) Quantities may change upon release of the Tactical Wheeled Vehicle Strategy.  
 (2) FY17 - 4 EA OCO FUNDS \$0.137M  
 (3) FY17 - 38 EA OCO FUNDS \$8.645



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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> FY 2018 Air Force	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 2	<b>P-1 Line Item Number / Title:</b> 822230 / Medium Tactical Vehicle	<b>Aggregated Items Title:</b> Medium Tactical Vehicle
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<sup>(4)</sup> FY17 - 1 EA OCO FUNDS \$0.272M

<sup>(5)</sup> Quantities may change upon release of the Tactical Wheeled Vehicle Strategy.

<sup>(6)</sup> Quantities may change upon release of the Tactical Wheeled Vehicle Strategy.

<sup>(7)</sup> FY17 - 1 EA OCO FUNDS \$0.010M

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles **P-1 Line Item Number / Title:** 822910 / Cap Vehicles

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

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

Resource Summary	Prior Years	FY 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> )	59	-	-	-	-	-	-	-	-	-	-	59
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1.692	1.700	0.984	1.011	0.000	1.011	1.029	1.048	1.068	1.087	-	9.619
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1.692	1.700	0.984	1.011	0.000	1.011	1.029	1.048	1.068	1.087	-	9.619
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1.692</b>	<b>1.700</b>	<b>0.984</b>	<b>1.011</b>	<b>0.000</b>	<b>1.011</b>	<b>1.029</b>	<b>1.048</b>	<b>1.068</b>	<b>1.087</b>	-	<b>9.619</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	0.029	-	-	-	-	-	-	-	-	-	-	0.163

**Description:**

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

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

Vehicle procurements enable the Civil Air Patrol (CAP) to provide rapid deployment of emergency essential ground teams who are capable of providing critical communications and humanitarian support during national emergencies and disasters.

CAP's procurement processes/standards are described in Department of Defense Grant & Agreement Regulations.

Program element associated with this P-1 Line is: 0901223F

**Justification:**

FY18 funding procures, but is not limited to, 31 vehicles in support of CAP Emergency Services, Cadet and Aerospace Education programs that encourage and develop the voluntary contribution of private citizens to the public welfare.

Vehicle type and quantities may change in execution year due to market availability, cost changes, mission requirements, additional funding, and needs of the organization. CAP generally receives a mark-up in execution year funds from Congress.

CAP provides transportation for ground teams who support 90% of the Air Force's search and rescue (SAR) missions in accordance with the National SAR Plan and disaster relief activities. Vehicles also provide transportation for over 24,000 CAP cadets to support execution of the Aerospace Education and Cadet Program missions as directed by 36 U.S.C Section 403, 10 U.S.C. Section 9442.

AF central procurement processes are not applicable.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles		<b>P-1 Line Item Number / Title:</b> 822910 / Cap Vehicles
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles **P-1 Line Item Number / Title:** 822990 / Cargo and Utility Vehicles

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

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

Resource Summary	Prior Years	FY 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> )	-	12.483	134.455	28.670	1.882	30.552	8.685	23.709	23.253	24.209	-	257.346
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	12.483	134.455	28.670	1.882	30.552	8.685	23.709	23.253	24.209	-	257.346
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>12.483</b>	<b>134.455</b>	<b>28.670</b>	<b>1.882</b>	<b>30.552</b>	<b>8.685</b>	<b>23.709</b>	<b>23.253</b>	<b>24.209</b>	-	<b>257.346</b>

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

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

**Description:**

FY17 funding totals include \$12.264M appropriated for Overseas Contingency Operations.

This vehicle group consists of pickup trucks, trailers, semi-trailers, trucks, vans, utility trucks, maintenance and facility vehicles essential to base and flying operations. Assets are critical to the Air Force mission and are essential to flight line operations (aircraft maintenance), depot maintenance, component routing to depot back shops and airfield maintenance, and Air Base Civil Engineers performing base housing maintenance and repairs. These items are critical across the spectrum of functional users throughout the Air Force and provide multi-purpose capabilities. These vehicles also support mission needs for light to heavy cargo transport, as well as transportation for air/flight crew personnel. Cargo utility vehicles also provide heavy cargo movement for civil engineering and construction projects. Without the procurement of these replacement vehicles, the Air Force will not have the ability to support broad spectrum Air Force operations.

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 contained in PEs: 0202834F,0207597F, 0208028F, 0305114F, 0401221F, 0502834F, 0502844F, 0702831F, 1203915F.

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	283	3,731	546	52	598	0	0	0	0
	Total Obligation Authority	10.756	131.128	19.853	1.882	21.734	0.000	0.000	0.000	0.000
AFNG	Quantity	4	8	174	0	174	0	0	0	0
	Total Obligation Authority	0.204	0.281	6.241	0.000	6.241	0.000	0.000	0.000	0.000
AFR	Quantity	51	83	39	0	39	0	0	0	0
	Total Obligation Authority	1.523	3.046	2.576	0.000	2.576	0.000	0.000	0.000	0.000
<b>Total:</b>	<b>Quantity</b>	<b>338</b>	<b>3,822</b>	<b>759</b>	<b>52</b>	<b>811</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles	<b>P-1 Line Item Number / Title:</b> 822990 / Cargo and Utility Vehicles
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

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	12.483	134.455	28.670	1.882	30.552	0.000	0.000	0.000	0.000

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles **P-1 Line Item Number / Title:** 822990 / Cargo and Utility Vehicles

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

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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-40a	Cargo and Utility Vehicles				- / -	- / 12.483	- / 134.455	- / 28.670	- / 1.882	- / 30.552
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 12.483	- / 134.455	- / 28.670	- / 1.882	- / 30.552

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

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

**Justification:**

FY18 procurement dollars in the amount of \$28.670M will procure, but is not limited, to 759 vehicles in support of installation and unit mission requirements for Air Force personnel.

FY18 OCO dollars in the amount of \$1.882M will procure, but is not limited to, 52 vehicles in support of Overseas Contingency Operations.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles						Aggregated Items Title: Cargo and Utility Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
TRK 1/2 Crew Cab 4x4 PU (2320-01-484-6745)	A		-	-	-	27,890.00	10	0.279	43,000.00	13	0.559	28,000.00	69	1.932	-	-	-	28,000.00	69	1.932
<i>Secondary Distribution</i>																				
AF				-	-		10	0.279		13	0.559		46	1.288		-	-		46	1.288
AFNG				-	-								23	0.644		-	-		23	0.644
TRK PU 4DR 4X4 F450 (2320-01-501-6635)	A		-	-	-				50,622.00	15	0.759				-	-	-			
<i>Secondary Distribution</i>																				
AF				-	-					15	0.759				-	-	-			
TRK PU 4X4 3/4 REG CAB MIN8000 (2320-01-532-2772)	A		-	-	-				26,750.00	19	0.508				-	-	-			
<i>Secondary Distribution</i>																				
AF				-	-					19	0.508				-	-	-			
TRK UTILITY 4X4 4DOOR (2320-01-338-6502)	A		-	-	-				29,500.00	15	0.443				-	-	-			
<i>Secondary Distribution</i>																				
AF				-	-					11	0.325				-	-	-			
AFNG				-	-					4	0.118				-	-	-			
TRK CGO CMPT 4X4 3500G (2320-01-087-8223)	A		-	-	-				22,000.00	15	0.330				-	-	-			
<i>Secondary Distribution</i>																				
AF				-	-					15	0.330				-	-	-			
PMA	A		-	-	-				12,000.00	1	0.012	5,800.00	1	0.006	-	-	-	5,800.00	1	0.006
<i>Secondary Distribution</i>																				
AF				-	-					1	0.012		1	0.006		-	-		1	0.006
TRK TRAC 55 GVW 6X4 RH (2320-01-058-5724)	A		-	-	-	106,910.00	2	0.214	146,750.00	13	1.908	138,500.00	12	1.662	138,500.00	2	0.277	138,500.00	14	1.939
<i>Secondary Distribution</i>																				
AF				-	-		1	0.107		13	1.908		5	0.693		2	0.277		7	0.970
AFNG				-	-								7	0.970		-	-		7	0.970
AFR				-	-		1	0.107								-	-			
1T S&P 4X2 (2320-00-851-8481)	A		-	-	-	26,151.00	7	0.183	30,000.00	138	4.140				-	-	-			
<i>Secondary Distribution</i>																				



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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 02 / 2 **P-1 Line Item Number / Title:** 822990 / Cargo and Utility Vehicles **Aggregated Items Title:** Cargo and Utility Vehicles

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
AF				-	-		5	0.131		133	3.990		-	-		-	-		-	-
AFR				-	-		2	0.052		5	0.150		-	-		-	-		-	-
Armored SUV (2320-01-533-0826)	A		-	-	-	105,000.00	6	0.630	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		6	0.630		-	-		-	-		-	-		-	-
4X4 CREWCAB UTILITY TRK (2320-01-395-1368) (1)	A		-	-	-	-	-	-	420,000.00	1	0.420	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.420		-	-		-	-		-	-
TRAILER TILT DECK 6TON (2330-01-657-2183)	A		-	-	-	22,186.00	1	0.022	19,000.00	16	0.304	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		16	0.304		-	-		-	-		-	-
AFR				-	-		1	0.022		-	-		-	-		-	-		-	-
TRAILER VAN CARGO 12TON (2330-01-657-3336)	A		-	-	-	35,000.00	1	0.035	35,586.00	35	1.246	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		35	1.246		-	-		-	-		-	-
AFR				-	-		1	0.035		-	-		-	-		-	-		-	-
TRAILER 20T 40FT W/COVER KIT (2330-01-094-0007)	A		-	-	-	25,000.00	5	0.125	78,000.00	24	1.872	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		4	0.100		22	1.716		-	-		-	-		-	-
AFR				-	-		1	0.025		2	0.156		-	-		-	-		-	-
TRAILER LOWBED 35TON (2330-01-051-6648)	A		-	-	-	22,500.00	2	0.045	62,000.00	13	0.806	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		2	0.045		10	0.620		-	-		-	-		-	-
AFR				-	-		-	-		3	0.186		-	-		-	-		-	-
TRAILER LOW-BED 20TON 25FT (2330-01-657-1333)	A		-	-	-	34,497.00	2	0.069	39,000.00	54	2.106	41,000.00	20	0.820	-	-	-	41,000.00	20	0.820
<i>Secondary Distribution</i>																				
AF				-	-		1	0.034		54	2.106		9	0.369		-	-		9	0.369

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 02 / 2 **P-1 Line Item Number / Title:** 822990 / Cargo and Utility Vehicles **Aggregated Items Title:** Cargo and Utility Vehicles

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
AFNG				-	-		-	-		-	-		7	0.287		-	-		7	0.287	
AFR				-	-		1	0.034		-	-		4	0.164		-	-		4	0.164	
TRK CGO 4DR 4X4 TLR TWG (2320-01-424-2760)	A		-	-	-	30,512.00	2	0.061	31,426.00	26	0.817		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		1	0.031		25	0.786		-	-		-	-		-	-	
AFNG				-	-		-	-		1	0.031		-	-		-	-		-	-	
AFR				-	-		1	0.031		-	-		-	-		-	-		-	-	
TRAILER, 38 FT. SEMI (2330-01-381-9477)	A		-	-	-	33,765.00	83	2.802	44,000.00	207	9.108	45,000.00	21	0.945		-	-		45,000.00	21	0.945
<i>Secondary Distribution</i>																					
AF				-	-		83	2.802		202	8.888		18	0.810		-	-		18	0.810	
AFNG				-	-		-	-		3	0.132		3	0.135		-	-		3	0.135	
AFR				-	-		-	-		2	0.088		-	-		-	-		-	-	
TLR CBL REEL, W/POLE 6TON (2330-01-657-3338)	A		-	-	-	23,689.00	1	0.024		-	-		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AFR				-	-		1	0.024		-	-		-	-		-	-		-	-	
STLR VAN 30FT 12 TON (2330-01-627-5975)	A		-	-	-	49,586.00	2	0.099	54,258.00	2	0.109		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		2	0.099		2	0.109		-	-		-	-		-	-	
TRK3/4T CREW CAB 4X2 PU (2320-00-450-1005)	A		-	-	-	37,446.00	1	0.037		-	-		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AFR				-	-		1	0.037		-	-		-	-		-	-		-	-	
TRK TRAC 6X4 MLOX 64-72K (2320-00-344-4397)	A		-	-	-	204,057.00	1	0.204		-	-		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		1	0.204		-	-		-	-		-	-		-	-	
TRK TRAC SPTR 4X2 32MG G (2320-00-239-2944)	A		-	-	-	50,118.00	1	0.050		-	-		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		1	0.050		-	-		-	-		-	-		-	-	

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles						Aggregated Items Title: Cargo and Utility Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
TRAILER, FLAT BED, 45 FT. AIR RIDE (2330-01-061-8609) (2)	A		-	-	-	-	-	-	41,000.00	3	0.123	42,000.00	8	0.336	-	-	-	42,000.00	8	0.336
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	0.123		8	0.336		-	-		8	0.336
TRAILER, 50 TON LOWBED (2330-01-058-5911)	A		-	-	-	60,613.00	7	0.424	67,945.00	12	0.815	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		7	0.424		12	0.815		-	-		-	-		-	-
TRAILER, LOWBED, TILT DECK, 22 TON (2330-01-657-3337)	A		-	-	-	39,426.00	4	0.158	40,608.00	34	1.381	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		3	0.118		31	1.259		-	-		-	-		-	-
AFNG				-	-		1	0.039		-	-		-	-		-	-		-	-
AFR				-	-		-	-		3	0.122		-	-		-	-		-	-
TRUCK, PICKUP, CREW CAB, 1/2T, 4X4 (2320-01-484-6748)	A		-	-	-	25,645.00	8	0.205	33,000.00	36	1.188	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		7	0.180		36	1.188		-	-		-	-		-	-
AFR				-	-		1	0.026		-	-		-	-		-	-		-	-
TRUCK, PICKUP CREW CAB 4X4, 3/4T CU (2320-00-580-2955) (3)	A		-	-	-	30,279.00	29	0.878	34,000.00	258	8.772	36,250.65	46	1.668	36,250.00	4	0.145	36,250.60	50	1.813
<i>Secondary Distribution</i>																				
AF				-	-		20	0.606		250	8.500		38	1.378		4	0.145		42	1.523
AFNG				-	-		1	0.030		-	-		7	0.254		-	-		7	0.254
AFR				-	-		8	0.242		8	0.272		1	0.036		-	-		1	0.036
TRUCK, PICKUP CREW CAB 4X2, 3/4T CU (2320-00-580-2954) (4)	A		-	-	-	25,127.00	12	0.302	31,000.00	292	9.052	32,000.00	44	1.408	32,000.00	4	0.128	32,000.00	48	1.536
<i>Secondary Distribution</i>																				
AF				-	-		9	0.226		289	8.959		37	1.184		4	0.128		41	1.312
AFNG				-	-		1	0.025		-	-		7	0.224		-	-		7	0.224

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles						Aggregated Items Title: Cargo and Utility Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
AFR				-	-		2	0.050		3	0.093		-	-		-	-		-	-
TRUCK, STAKE AND PLATFORM 4X2 10000GVW (2320-01-250-7367)	A		-	-	-	29,844.00	7	0.209	34,950.00	144	5.033	31,000.00	28	0.868	31,000.00	1	0.031	31,000.00	29	0.899
<i>Secondary Distribution</i>																				
AF				-	-		6	0.179		144	5.033		22	0.682		1	0.031		23	0.713
AFNG				-	-		-	-		-	-		6	0.186		-	-		6	0.186
AFR				-	-		1	0.030		-	-		-	-		-	-		-	-
TRUCK, CARRYALL 4X2 8 PAX (2320-00-879-7662) (5)	A		-	-	-	25,727.00	7	0.180	27,000.00	162	4.374	27,850.00	32	0.891	27,850.00	4	0.111	27,850.00	36	1.003
<i>Secondary Distribution</i>																				
AF				-	-		6	0.154		162	4.374		28	0.780		4	0.111		32	0.891
AFNG				-	-		-	-		-	-		4	0.111		-	-		4	0.111
AFR				-	-		1	0.026		-	-		-	-		-	-		-	-
TRUCK, CARRYALL 4X2 15 PAX (2320-01-036-6569)	A		-	-	-	27,659.00	8	0.221	28,000.00	139	3.892	29,000.00	16	0.464	29,000.00	4	0.116	29,000.00	20	0.580
<i>Secondary Distribution</i>																				
AF				-	-		7	0.194		139	3.892		13	0.377		4	0.116		17	0.493
AFNG				-	-		-	-		-	-		3	0.087		-	-		3	0.087
AFR				-	-		1	0.028		-	-		-	-		-	-		-	-
TRUCK, CARRYALL 4X2 7 PAX (2320-01-173-6113)	A		-	-	-	21,649.00	2	0.043	24,300.00	63	1.531	27,000.00	21	0.567	27,000.00	4	0.108	27,000.00	25	0.675
<i>Secondary Distribution</i>																				
AF				-	-		1	0.022		60	1.458		18	0.486		4	0.108		22	0.594
AFNG				-	-		-	-		-	-		3	0.081		-	-		3	0.081
AFR				-	-		1	0.022		3	0.073		-	-		-	-		-	-
TRUCK, PICKUP 4X4 1/2 T 4600 & 5799 GVW (2320-00-811-6869)	A		-	-	-	22,562.00	9	0.203	24,200.00	78	1.888	26,464.00	28	0.741	26,464.00	4	0.106	26,464.00	32	0.847
<i>Secondary Distribution</i>																				
AF				-	-		7	0.158		75	1.815		24	0.635		4	0.106		28	0.741
AFNG				-	-		-	-		-	-		4	0.106		-	-		4	0.106
AFR				-	-		2	0.045		3	0.073		-	-		-	-		-	-
SUV, 4X4 COMPACT 4500 GVW (2320-01-563-7478)	A		-	-	-	-	-	-	25,000.00	28	0.700	27,000.00	20	0.540	27,000.00	3	0.081	27,000.00	23	0.621

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles						Aggregated Items Title: Cargo and Utility Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		-	-		28	0.700		20	0.540		3	0.081		23	0.621
VAN, MAINTENANCE UTILITY DELIVERY (2320-01-176-2223) (6)	A		-	-	-	27,783.00	29	0.806	37,000.00	379	14.023	37,000.00	50	1.850	37,000.00	3	0.111	37,000.00	53	1.961
<i>Secondary Distribution</i>																				
AF				-	-		22	0.611		367	13.579		35	1.295		3	0.111		38	1.406
AFNG				-	-		-	-		-	-		15	0.555		-	-		15	0.555
AFR				-	-		7	0.194		12	0.444		-	-		-	-		-	-
TRUCK, TRACTOR 44.5G (2320-00-271-1432) (7)	A		-	-	-	125,410.00	18	2.257	129,750.00	85	11.029	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		17	2.132		84	10.899		-	-		-	-		-	-
AFR				-	-		1	0.125		1	0.130		-	-		-	-		-	-
TRUCK, VAN PANEL 4X2 (2320-01-013-2754)	A		-	-	-	21,936.00	12	0.263	23,750.00	279	6.626	23,750.00	33	0.784	23,750.00	3	0.071	23,750.00	36	0.855
<i>Secondary Distribution</i>																				
AF				-	-		10	0.219		273	6.484		16	0.380		3	0.071		19	0.451
AFNG				-	-		-	-		-	-		13	0.309		-	-		13	0.309
AFR				-	-		2	0.044		6	0.143		4	0.095		-	-		4	0.095
TRUCK, TRACTOR 39.5G (2320-01-341-7627)	A		-	-	-	109,067.00	1	0.109	130,585.00	26	3.395	118,000.00	14	1.652	118,000.00	1	0.118	118,000.00	15	1.770
<i>Secondary Distribution</i>																				
AF				-	-		-	-		26	3.395		11	1.298		1	0.118		12	1.416
AFNG				-	-		1	0.109		-	-		3	0.354		-	-		3	0.354
TRUCK, 1/2 T REG CAB 4X2 (2320-00-540-1428)	A		-	-	-	20,177.00	21	0.424	24,000.00	390	9.360	24,000.00	73	1.752	24,000.00	2	0.048	24,000.00	75	1.800
<i>Secondary Distribution</i>																				
AF				-	-		17	0.343		385	9.240		43	1.032		2	0.048		45	1.080
AFNG				-	-		-	-		-	-		24	0.576		-	-		24	0.576
AFR				-	-		4	0.081		5	0.120		6	0.144		-	-		6	0.144
1/4 TON 4X4 EXT CAB P/U (2320-01-500-9498)	A		-	-	-	31,641.00	1	0.032	-	-	-	32,000.00	12	0.384	-	-	-	32,000.00	12	0.384
<i>Secondary Distribution</i>																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles						Aggregated Items Title: Cargo and Utility Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
AF			-	-	-	1	0.032	-	-	-	12	0.384	-	-	-	-	-	12	0.384	
TRUCK, COMPACT CREW CAB 4X4 (2320-01-500-5203) (8)	A		-	-	-	30,427.00	6	0.183	30,000.00	333	9.990	31,000.00	44	1.364	31,000.00	2	0.062	31,000.00	46	1.426
<i>Secondary Distribution</i>																				
AF			-	-	-	5	0.152	-	326	9.780	-	31	0.961	-	2	0.062	-	33	1.023	
AFNG			-	-	-	-	-	-	-	-	-	7	0.217	-	-	-	-	7	0.217	
AFR			-	-	-	1	0.030	-	7	0.210	-	6	0.186	-	-	-	-	6	0.186	
TRUCK, PICKUP CREW CAB 4X2 (2320-01-504-1443)	A		-	-	-	-	-	29,000.00	249	7.221	29,000.00	21	0.609	29,000.00	4	0.116	29,000.00	25	0.725	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	249	7.221	-	21	0.609	-	4	0.116	-	25	0.725	
TRUCK, 1/4 TON 4X2 EXT CAB (2320-01-496-0404)	A		-	-	-	22,443.00	27	0.606	27,000.00	166	4.482	28,000.00	81	2.268	28,000.00	3	0.084	28,000.00	84	2.352
<i>Secondary Distribution</i>																				
AF			-	-	-	20	0.449	-	151	4.077	-	49	1.372	-	3	0.084	-	52	1.456	
AFNG			-	-	-	-	-	-	-	-	-	27	0.756	-	-	-	-	27	0.756	
AFR			-	-	-	7	0.157	-	15	0.405	-	5	0.140	-	-	-	-	5	0.140	
TRUCK, 4X2 UTILITY 9 PAX (2320-01-441-6916)	A		-	-	-	30,453.00	1	0.030	38,000.00	9	0.342	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	9	0.342	-	-	-	-	-	-	-	-	-	
AFR			-	-	-	1	0.030	-	-	-	-	-	-	-	-	-	-	-	-	
12 TON STAKE PLATFM TRAILER (2330-01-331-8867)	A		-	-	-	-	-	-	-	-	43,000.00	14	0.602	-	-	-	43,000.00	14	0.602	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	9	0.387	-	-	-	-	-	9	0.387	
AFR			-	-	-	-	-	-	-	-	5	0.215	-	-	-	-	-	5	0.215	
12 TON STAKE PLATFORM TRAILER (2330-01-657-3331)	A		-	-	-	24,780.00	1	0.025	42,600.00	1	0.043	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	1	0.043	-	-	-	-	-	-	-	-	-	
AFR			-	-	-	1	0.025	-	-	-	-	-	-	-	-	-	-	-	-	
STLR VAN 30FT 12T (2330-00-865-5443)	A		-	-	-	-	-	-	-	-	34,000.00	21	0.714	-	-	-	34,000.00	21	0.714	

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 02 / 2 **P-1 Line Item Number / Title:** 822990 / Cargo and Utility Vehicles **Aggregated Items Title:** Cargo and Utility Vehicles

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
<i>Secondary Distribution</i>																					
AF				-	-		-	-		-	-		8	0.272		-	-		8	0.272	
AFNG				-	-		-	-		-	-		9	0.306		-	-		9	0.306	
AFR				-	-		-	-		-	-		4	0.136		-	-		4	0.136	
TRK TRACTOR (2320-01-482-9775)	A		-	-	-	-	-	-	-	-	-	365,000.00	8	2.920		-	-	-	365,000.00	8	2.920
<i>Secondary Distribution</i>																					
AF				-	-		-	-		-	-		4	1.460		-	-		4	1.460	
AFR				-	-		-	-		-	-		4	1.460		-	-		4	1.460	
TRAILER, DETACHABLE GOOSENECK 60TON (2330-00-349-2572)	EA		-	-	-	45,147.00	1	0.045	76,534.00	49	3.750		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		1	0.045		44	3.367		-	-		-	-		-	-	
AFR				-	-		-	-		5	0.383		-	-		-	-		-	-	
TRK CARRYALL 4X4 7500 GVW (2320-00-950-4238)	A		-	-	-	-	-	-	-	-	-	42,000.00	22	0.924	42,000.00	4	0.168	42,000.00	26	1.092	
<i>Secondary Distribution</i>																					
AF				-	-		-	-		-	-		20	0.840		4	0.168		24	1.008	
AFNG				-	-		-	-		-	-		2	0.084		-	-		2	0.084	
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	12.483	-	-	134.455	-	-	28.670	-	-	1.882	-	-	30.552	
<b>Total</b>			-	-	-	-	-	12.483	-	-	134.455	-	-	28.670	-	-	1.882	-	-	30.552	

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

**Remarks:**  
Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.

FY18 UNIT COSTS ARE SUBJECT TO CHANGE.

PROGRAM MANAGEMENT JUSTIFICATION (PMA): PMA supports the operation of the program office in its management and oversight role via travel, procurement of supplies and Advisory and Administration Services (A&AS).

- Footnotes:**
- (1) FY17 - 1 EA OCO FUNDS \$0.420M
  - (2) FY17 - 1 EA OCO FUNDS \$0.041M
  - (3) FY17 - 56 EA OCO FUNDS \$1.904M
  - (4) FY17 - 25 EA OCO FUNDS \$0.775M
  - (5) FY17 - 25 EA OCO FUNDS \$0.675M
  - (6) FY17 - 37 EA OCO FUNDS \$1.369M
  - (7) (Airfield Damage Repair) FY16 REQ @10 each; PEC 0305114F AIR TRAFFIC CONTROL, APPROACH AND LANDING SYSTEM (ATCALs).
  - (8) FY17 - 236 EA OCO FUNDS \$7.080M

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special Purpose Vehicles

**P-1 Line Item Number / Title:**  
823230 / Security And Tactical Vehicles

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

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

Resource Summary	Prior Years	FY 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> )	-	1.684	40.361	59.398	1.100	60.498	31.598	55.274	55.924	56.585	-	301.924
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	1.684	40.361	59.398	1.100	60.498	31.598	55.274	55.924	56.585	-	301.924
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>1.684</b>	<b>40.361</b>	<b>59.398</b>	<b>1.100</b>	<b>60.498</b>	<b>31.598</b>	<b>55.274</b>	<b>55.924</b>	<b>56.585</b>	-	<b>301.924</b>

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

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

**Description:**

Funding provides for a variety of security and tactical vehicles essential to strategic military operations. This program previously procured the standard diesel powered High Mobility Multi-purpose Wheeled Vehicle (HMMWV) and all configurations used by the Air Force, Guardian Angel Air-Deployable Rescue Vehicle (GAARV), and cargo trailers. Funding will be used to procure next generation security and tactical vehicles to include the fielding of the Joint Light Tactical Vehicle (JLTV).

The M1101 and M1102 are light tactical trailers (designated by load weight) in a single axle, two wheel trailer designed to be towed by a HMMWV towing vehicle. The trailers have the same tires, wheels, and track width as the HMMWV. The only difference between the M1101 and the M1102 trailer is the model information and payload capacity. The trailers have various applications and provide the forces with a light, nimble, rugged trailer built primarily for hauling cargo.

Joint Light Tactical Vehicles (JLTV) is the HMMWV replacement for the DOD. The USAF investment in JLTVs will begin in FY17 and continue through the FYDP. The USAF JLTV program will need multiple STS Work Directives generated and worked through the Joint Program Office (JPO) for USAF specific requirements and kit operability on four JLTV variants and a JLTV trailer. The four variants include the General Purpose (GP) JLTV, the Utility (UT) JLTV, the Heavy Guns Carrier (HGC) JLTV, and the Close Combat Weapons Carrier (CCWC). FY17 funding will define the user configurations on each platform prior to Full Rate Production that is expected to begin in FY18. Purchase of CFE and GFE kits, as well as at least one JLTV in each variant: GP, UTL, HGC and CCWC will be executed in FY17. Technical Data Packages, as well as USAF specific Tech Data and support will also be provisioned and worked during this time to support the incoming inventory once testing is complete.

Guardian Angel Air-Deployable Rescue Vehicle: The Guardian Angel Air-Deployable Rescue Vehicle (GAARV) is an air-deployable surface recovery platform capable of maneuvering over adverse terrain in order to search for and recover isolated personnel and/or equipment. It will provide increased survivability during "outside the wire" personnel recovery operations, more secure transportation capability to the recovery team and injured/isolated personnel from an area of high threat, and necessary training platforms for operators to familiarize themselves with vehicles they utilize in the area of operations. It also provides operators with increased protection from enemy fire and improvised explosive devices. Funding includes, but is not limited to procurement of end items, training, upgrades, spares, Interim Contractor Support (ICS), repairs, deployment packages and returns. 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. Due to rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements.

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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special Purpose Vehicles		<b>P-1 Line Item Number / Title:</b> 823230 / Security And Tactical Vehicles
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
Funding for this exhibit contained in PEs 0202834F, 0207227F, 0502834F, 0502844F, 0702831F, 0804731F.		

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special Purpose Vehicles **P-1 Line Item Number / Title:** 823230 / Security And Tactical Vehicles

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

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

Exhibits Schedule					Prior Years	FY 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	Security And Tactical Vehicles				- / -	- / 1.684	- / 40.361	- / 59.398	- / 1.100	- / 60.498
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 1.684</b>	<b>- / 40.361</b>	<b>- / 59.398</b>	<b>- / 1.100</b>	<b>- / 60.498</b>

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

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

**Justification:**

FY18 procurement dollars in the amount of \$59.398M procures, but is not limited to 444 vehicles in support of the installation and unit mission requirements for Air Force personnel. For Guardian Angel Air Deployable Rescue Vehicle, funding will include, but not be limited to, the necessary support of GAARV vehicles.

FY18 OCO dollars in the amount of \$1.100M will procure, but is not limited to, 31 vehicles in support of Overseas Contingency Operations.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 02 / 3 **P-1 Line Item Number / Title:** 823230 / Security And Tactical Vehicles **Aggregated Items Title:** Security And Tactical Vehicles

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
HIGH MOBILITY TRAILER, LIGHT M1101 (NSN 2330-01-388-6662)	A		-	-	-	10,954.66	3	0.033	29,245.00	30	0.877	29,245.00	88	2.574	-	-	-	29,245.00	88	2.574
JLTV General Purpose (GP) - 2320-01-653-6557	A		-	-	-	-	-	-	375,000.00	29	10.875	375,000.00	46	17.250	375,000.00	2	0.750	375,000.00	48	18.000
JLTV Utility (UT) - 2320-01-653-6516	A		-	-	-	-	-	-	375,000.00	29	10.875	375,000.00	46	17.250	-	-	-	375,000.00	46	17.250
JLTV Heavy Guns Carrier (HGC) - 2320-01-653-6495	A		-	-	-	-	-	-	375,000.00	28	10.500	375,000.00	46	17.250	-	-	-	375,000.00	46	17.250
JLTV Trailer - 2330-01-653-9745	A		-	-	-	-	-	-	59,750.00	30	1.793	63,475.00	46	2.920	-	-	-	63,475.00	46	2.920
HMMWV, M1151A1 (2320015402038)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M1102 TRAILER (NSN: 2330-01-387-5426)	A		-	-	-	8,813.60	10	0.088	8,000.00	29	0.232	10,401.00	86	0.894	10,401.00	14	0.146	10,401.00	100	1.040
GUARDIAN ANGEL AIR-DEPLOYABLE RESCUE VEHICLE (GAARV)	A		-	-	-	420,500.00	2	0.841	356,363.64	11	3.920	90,000.00	1	0.090	-	-	-	90,000.00	1	0.090
HMMWV M1152A1 (2320-01-540-2007)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRL CGO 1.5T M105 (2330-00-541-6466)	A		-	-	-	-	-	-	10,240.00	61	0.625	13,647.00	85	1.160	13,647.00	15	0.205	13,647.00	100	1.365
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.005	15,000.00	1	0.015	-	-	0.010	-	-	-	-	-	0.010
PMA CONTRACTOR SERVICES	A		-	-	-	-	-	0.717	649,500.00	1	0.650	-	-	-	-	-	-	-	-	-
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>1.684</b>	-	-	<b>40.361</b>	-	-	<b>59.398</b>	-	-	<b>1.100</b>	-	-	<b>60.498</b>
<b>Total</b>			-	-	-	-	-	<b>1.684</b>	-	-	<b>40.361</b>	-	-	<b>59.398</b>	-	-	<b>1.100</b>	-	-	<b>60.498</b>

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

**Remarks:**  
PMA Justification:

PROGRAM MANAGEMENT ADMINISTRATION (PMA): PMA supports the operation of the program office in its management and oversight role via travel, procurement of supplies and Advisory and Administrative Services (A&AS). The A&AS team of contractors will begin the program and sustainment planning to include provisioning/cataloging and technical order management support AF building of the Joint Light Tactical Vehicle (JLTV). Funding will also support TDY requirements associated with JLTV.

Guardian Angel Air-Deployable Rescue Vehicle (GAARV):

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** FY 2018 Air Force **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 3	<b>P-1 Line Item Number / Title:</b> 823230 / Security And Tactical Vehicles	<b>Aggregated Items Title:</b> Security And Tactical Vehicles
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Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution. GAARV unit cost is approximately \$300,000.00 per vehicle and does not include training, upgrades, spares, repairs, deployment packages and returns.

FY18 funding will provide for the necessary GAARV support.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special Purpose Vehicles  
**P-1 Line Item Number / Title:** 823990 / Special Purpose Vehicles

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

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

Resource Summary	Prior Years	FY 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)	-	9.102	56.412	19.784	32.479	52.263	13.309	24.356	25.567	25.364	-	206.373
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	9.102	56.412	19.784	32.479	52.263	13.309	24.356	25.567	25.364	-	206.373
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>9.102</b>	<b>56.412</b>	<b>19.784</b>	<b>32.479</b>	<b>52.263</b>	<b>13.309</b>	<b>24.356</b>	<b>25.567</b>	<b>25.364</b>	-	<b>206.373</b>

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

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

**Description:**

FY17 funding totals include \$16.789M appropriated for Overseas Contingency Operations.

The Special Purpose Vehicles group consists of various vehicles for flightline, maintenance, and facility operations used for a variety of purposes. Examples of these vehicles include the IW 40 tractor, 4 and 8 passenger over-the-snow-carriers, an assortment of wreckers and refuse trucks, potable and non-potable water distribution trucks, refueling vehicles, deicers, staircase trucks, lavatory service trucks, high reach maintenance trucks, glycol recovery vehicles, disabled patient vehicles, and tow tractors. Tow tractors are used to tow aircrafts, munition trailers, and ground support equipment. The IW 40 tractor is a small farm tractor used primarily to pull a mower and for other light tasks; the snow carriers are tracked vehicles which move personnel in snowy conditions and are used in search and rescue missions; the wreckers are used to move disabled vehicles, haul vehicles or to deploy a heavy duty winch. The refuse trucks in this group include one which tilts and dumps a payload and one which compacts refuse prior to discharge. Aircraft refueling vehicles refuel and defuel aircrafts. Potable water distribution trucks provide drinking water to personnel; non-potable water distribution trucks are used primarily to wet down and control dust at a construction site.

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 contained in PEs 0202834F, 0207597F, 0401221F, 0502834F, 0502844F 0702831F.

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	51	309	86	172	258	0	0	0	0
	Total Obligation Authority	5.696	53.483	13.998	32.479	46.477	0.000	0.000	0.000	0.000
AFNG	Quantity	5	0	31	0	31	0	0	0	0
	Total Obligation Authority	0.378	0.000	4.000	0.000	4.000	0.000	0.000	0.000	0.000
AFR	Quantity	21	19	12	0	12	0	0	0	0
	Total Obligation Authority	3.028	2.929	1.786	0.000	1.786	0.000	0.000	0.000	0.000

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special Purpose Vehicles **P-1 Line Item Number / Title:** 823990 / Special Purpose Vehicles

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

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

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
<b>Total:</b>	Quantity	77	328	129	172	301	0	0	0	0
<b>Secondary Distribution</b>	Total Obligation Authority	9.102	56.412	19.784	32.479	52.263	0.000	0.000	0.000	0.000



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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special Purpose Vehicles **P-1 Line Item Number / Title:** 823990 / Special Purpose Vehicles

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

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

Exhibits Schedule					Prior Years	FY 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	Special Purpose Vehicles				- / -	- / 9.102	- / 56.412	- / 19.784	- / 32.479	- / 52.263
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 9.102</b>	<b>- / 56.412</b>	<b>- / 19.784</b>	<b>- / 32.479</b>	<b>- / 52.263</b>

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

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

**Justification:**

FY18 procurement dollars in the amount of \$19.784M procures, but is not limited to, 129 vehicles in support of installation and unit mission requirements for Air Force personnel.

FY18 OCO dollars in the amount of \$32.479M will procure, but is not limited to, 172 vehicles in support of Overseas Contingency Operations.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3						P-1 Line Item Number / Title: 823990 / Special Purpose Vehicles						Aggregated Items Title: Special Purpose Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
C5 STAIRCASE TRK (1730-01-602-5661YW)	A		-	-	-	-	-	0.301	1	0.301	0.323	5	1.614	0.323	3	0.969	0.323	8	2.583	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	4	1.291	-	3	0.969	-	7	2.260	
AFNG			-	-	-	-	-	-	-	-	1	0.323	-	-	-	-	-	1	0.323	
AFR			-	-	-	-	-	1	0.301	-	-	-	-	-	-	-	-	-	-	
CONTRACT MAINT TRUCK (2320-01-590-4213YW)	A		-	-	-	0.076	8	0.605	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	3	0.227	-	-	-	-	-	-	-	-	-	-	-	
AFNG			-	-	-	-	5	0.378	-	-	-	-	-	-	-	-	-	-	-	
HI-REACH TRUCK 55' (2320-00-995-5610YW)	A		-	-	-	0.180	1	0.180	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AFR			-	-	-	-	1	0.180	-	-	-	-	-	-	-	-	-	-	-	
C5 HI-LIFT TRUCK (2320-01-305-6339YW)	A		-	-	-	0.203	1	0.203	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AFR			-	-	-	-	1	0.203	-	-	-	-	-	-	-	-	-	-	-	
POTABLE WATER TRUCK (2320-00-089-8979YW)	A		-	-	-	0.069	1	0.069	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AFR			-	-	-	-	1	0.069	-	-	-	-	-	-	-	-	-	-	-	
TOW TRACTOR, MB-2 (1740-01-552-9854YW)	A		-	-	-	0.146	4	0.585	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	2	0.292	-	-	-	-	-	-	-	-	-	-	-	
AFR			-	-	-	-	2	0.292	-	-	-	-	-	-	-	-	-	-	-	
TRK HILIFT (2320-00-540-3489)	A		-	-	-	-	-	0.190	1	0.190	0.199	4	0.795	-	-	-	0.199	4	0.795	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	1	0.190	-	3	0.596	-	-	-	-	3	0.596	
AFNG			-	-	-	-	-	-	-	-	-	1	0.199	-	-	-	-	1	0.199	
4000GAL DEICER (1730-01-605-7637YW) (1)	A		-	-	-	-	-	0.304	10	3.040	0.304	10	3.040	0.304	4	1.216	0.304	14	4.256	
<i>Secondary Distribution</i>																				

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017					
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3						P-1 Line Item Number / Title: 823990 / Special Purpose Vehicles						Aggregated Items Title: Special Purpose Vehicles									
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total			
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
AF				-	-		-	-	10	3.040		9	2.736		4	1.216		13	3.952		
AFNG				-	-		-	-	-	-		1	0.304		-	-		1	0.304		
TRAC ACFT TWG MB-4 (1740-00-580-7990YW) (2)	A		-	-	-	0.115	5	0.576	0.111	1	0.111	0.119	9	1.068	0.119	23	2.729	0.119	32	3.797	
<i>Secondary Distribution</i>																					
AF				-	-		5	0.576		1	0.111		6	0.712		23	2.729		29	3.441	
AFNG				-	-		-	-		-			3	0.356		-	-		3	0.356	
TOW TRACTOR, MB-2 (1740-00-143-8464YW)	A		-	-	-	-	-	-	0.130	1	0.130	0.158	9	1.423	0.158	27	4.269	0.158	36	5.693	
<i>Secondary Distribution</i>																					
AF				-	-		-	-		-			6	0.949		27	4.269		33	5.218	
AFNG				-	-		-	-		-			3	0.474		-	-		3	0.474	
AFR				-	-		-	-		1	0.130		-	-		-	-		-	-	
FLIGHT LINE TOW TRACTOR, 4X2 (1740-01-068-8945YW) (3)	A		-	-	-	0.055	18	0.990	0.045	89	4.005	0.062	24	1.492	0.062	25	1.554	0.062	49	3.046	
<i>Secondary Distribution</i>																					
AF				-	-		15	0.825		89	4.005		17	1.057		25	1.554		42	2.610	
AFNG				-	-		-	-		-			4	0.249		-	-		4	0.249	
AFR				-	-		3	0.165		-	-		3	0.186		-	-		3	0.186	
TRUCK, MAINTENANCE 3/4T 4X4 (2320-00-541-1714)	A		-	-	-	-	-	-	0.033	70	2.310	0.036	7	0.254		-	-		0.036	7	0.254
<i>Secondary Distribution</i>																					
AF				-	-		-	-		70	2.310		2	0.072		-	-		2	0.072	
AFNG				-	-		-	-		-			4	0.145		-	-		4	0.145	
AFR				-	-		-	-		-			1	0.036		-	-		1	0.036	
TRUCK, TELEPHONE MAINT STD UTIL 4x2 (2320-00-801-9193)	A		-	-	-	0.028	9	0.256	0.035	6	0.210		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		6	0.171		-	-		-	-		-	-		-	-	
AFR				-	-		3	0.085		6	0.210		-	-		-	-		-	-	
3 TON STAKE AND PLATFORM (2320-00-935-4696)	A		-	-	-	-	-	-	0.166	3	0.498	0.169	6	1.011		-	-		0.169	6	1.011

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																	Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity:					P-1 Line Item Number / Title:										Aggregated Items Title:					
3080F / 02 / 3					823990 / Special Purpose Vehicles										Special Purpose Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		4	0.674		-	-		4	0.674
AFR				-	-		-	-		3	0.498		2	0.337		-	-		2	0.337
TRK TANK 1200G 4X2 (2320-00-177-6777)	A			-	-	0.119	1	0.119	0.126	1	0.126	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AFR				-	-		1	0.119		1	0.126		-	-		-	-		-	-
TRK TNK FUEL 6000GAL R-11 (2320-00-433-5695) (4)	A			-	-	0.225	16	3.592	0.200	7	1.400	0.209	29	6.072	0.209	42	8.795	0.209	71	14.867
<i>Secondary Distribution</i>																				
AF				-	-		11	2.470		3	0.600		17	3.560		42	8.795		59	12.354
AFNG				-	-		-	-		-	-		9	1.885		-	-		9	1.885
AFR				-	-		5	1.123		4	0.800		3	0.628		-	-		3	0.628
TRUCK, EXTENDED REACH DEICER (1730-01-495-5449YW) (5)	A			-	-	0.097	1	0.097	0.663	20	13.260	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.097		20	13.260		-	-		-	-		-	-
TRK MNT DIGGER DERRICK (2320-01-397-7528)	A			-	-	0.276	1	0.276	0.288	3	0.864	0.292	7	2.047	-	-	-	0.292	7	2.047
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		5	1.462		-	-		5	1.462
AFR				-	-		1	0.276		3	0.864		2	0.585		-	-		2	0.585
TRLR MAINT (2330-01-308-8926)	A			-	-	-	-	-	0.012	5	0.060	0.013	16	0.212	0.013	5	0.066	0.013	21	0.278
<i>Secondary Distribution</i>																				
AF				-	-		-	-		5	0.060		10	0.132		5	0.066		15	0.199
AFNG				-	-		-	-		-	-		5	0.066		-	-		5	0.066
AFR				-	-		-	-		-	-		1	0.013		-	-		1	0.013
2000GAL DEICER (1730-01-605-7636YW)	A			-	-	0.241	1	0.241	0.210	2	0.420	0.250	3	0.751	-	-	-	0.250	3	0.751
<i>Secondary Distribution</i>																				
AF				-	-		1	0.241		2	0.420		3	0.751		-	-		3	0.751
PMA OTHER GOVERNMENT COSTS	A			-	-	0.008	1	0.008	-	-	0.002	-	-	0.005	-	-	-	-	-	0.005

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3						P-1 Line Item Number / Title: 823990 / Special Purpose Vehicles						Aggregated Items Title: Special Purpose Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		1	0.008		-	0.002		-	0.005		-	-		-	0.005
STAIRCASE TRK (1730-01-601-8086YW)	A		-	-	-	0.145	6	0.869	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		5	0.724		-	-		-	-		-	-		-	-
AFR				-	-		1	0.145		-	-		-	-		-	-		-	-
TRUCK WRECKER TILT BED (2320-01-380-4755)	A		-	-	-	0.097	1	0.097	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AFR				-	-		1	0.097		-	-		-	-		-	-		-	-
LAVATORY SERVICE TRK (1730-00-981-7605YW) (6)	A		-	-	-	-	-	-	0.109	12	1.311	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		12	1.311		-	-		-	-		-	-
TRAC ACFT TOW (1740-01-367-9485YW) (7)	A		-	-	-	-	-	-	0.314	16	5.024	-	-	-	0.346	28	9.674	0.346	28	9.674
<i>Secondary Distribution</i>																				
AF				-	-		-	-		16	5.024		-	-		28	9.674		28	9.674
TRK REFRGR 4X2 (2320-00-770-4467) (8)	A		-	-	-	-	-	-	0.115	4	0.460	-	-	-	0.097	4	0.390	0.097	4	0.390
<i>Secondary Distribution</i>																				
AF				-	-		-	-		4	0.460		-	-		4	0.390		4	0.390
TRK HYDRANT FUEL (2320-01-125-2481) (9)	A		-	-	-	0.275	1	0.275	0.211	4	0.844	-	-	-	0.410	4	1.640	0.410	4	1.640
<i>Secondary Distribution</i>																				
AF				-	-		-	-		4	0.844		-	-		4	1.640		4	1.640
AFR				-	-		1	0.275		-	-		-	-		-	-		-	-
TRK FUEL AVGAS (2320-01-597-1728) (10)	A		-	-	-	-	-	-	0.142	10	1.420	-	-	-	0.168	7	1.178	0.168	7	1.178
<i>Secondary Distribution</i>																				
AF				-	-		-	-		10	1.420		-	-		7	1.178		7	1.178

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 3	<b>P-1 Line Item Number / Title:</b> 823990 / Special Purpose Vehicles	<b>Aggregated Items Title:</b> Special Purpose Vehicles
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
STLR M1000 70 TON TK TRNSPTR (2330013038832)	A		-	-	-	0.066	1	0.066	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	1	0.066	-	-	-	-	-	-	-	-	-	-	-	
FFTT, 4X4 (1740014524117YW)	A		-	-	-	-	-	-	0.063	35	2.189	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	35	2.189	-	-	-	-	-	-	-	-	
DEICER TRK MOUNTED (1730005556205YW)	A		-	-	-	-	-	-	0.675	27	18.237	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	27	18.237	-	-	-	-	-	-	-	-	
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	9.102	-	-	56.412	-	-	19.784	-	-	32.479	-	-	52.263
<b>Total</b>			-	-	-	-	-	9.102	-	-	56.412	-	-	19.784	-	-	32.479	-	-	52.263

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

**Remarks:**

1740005807990YW 4ea @ \$115204.40ea = \$460817.60 is ERI OCO funds.

1740010688945YW 8ea @ 54980.39ea = \$439834.12 is ERI OCO funds.

PROGRAM MANAGEMENT ADMINISTRATION (PMA): PMA supports the operation of the program office in its management and oversight role via travel, procurement of supplies and Advisory and Administrative Services (A&AS).

**Footnotes:**

- (1) FY17 - 8 EA OCO FUNDS \$2.432M
- (2) FY16 OCO FUNDING TO SUPPORT USAFE ERI AT 4 EACH
- (3) FY16 OCO FUNDING TO SUPPORT USAFE ERI AT 8 EACH.; FY17 - 16 EA OCO FUNDS \$0.720M
- (4) FY16 OCO FUNDING TO SUPPORT USAFE ERI AT 16 EACH.; FY17 - 3 EA OCO FUNDS \$0.600M
- (5) FY16 UNIT COST IS PART OF 1ST PRODUCTION COST ONLY.; FY17 - 6 EA OCO FUNDS \$3.978M
- (6) FY17 - 12 EA OCO FUNDS \$1.311M
- (7) FY17 - 16 EA OCO FUNDS \$5.024M
- (8) FY17 - 4 EA OCO FUNDS \$0.460M
- (9) FY17 - 4 EA OCO FUNDS \$0.844M
- (10) FY17 - 10 EA OCO FUNDS \$1.420M

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 4: Fire Fighting Equipment	<b>P-1 Line Item Number / Title:</b> 824010 / FIRE FIGHTING/CRASH RESCUE VEHICLES
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0202834F, 0901279F
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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> )	-	10.419	155.041	14.768	22.583	37.351	15.712	16.799	17.084	17.374	-	269.780
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	10.419	155.041	14.768	22.583	37.351	15.712	16.799	17.084	17.374	-	269.780
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>10.419</b>	<b>155.041</b>	<b>14.768</b>	<b>22.583</b>	<b>37.351</b>	<b>15.712</b>	<b>16.799</b>	<b>17.084</b>	<b>17.374</b>	-	<b>269.780</b>

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

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

**Description:**

FY17 funding totals include \$48.590M appropriated for Overseas Contingency Operations.

This P-1 line procures a variety of critical fire fighting and crash rescue vehicles. Vehicles typically include, but are not limited to, the following:

- The P-19 Crash Truck is an Air Rescue and Fire Fighting (ARFF) vehicle that is a first response vehicle on the scene of an aircraft fire emergency. It equips bases with the capability to rapidly extinguish aircraft fires. This truck is a mandatory flight line operations safety requirement and is essential at bases with a flying mission. The P-19 also provides fire fighting capability for Air National Guard and Air Force Reserve installations located at municipal airports. An installation's P-19 requirement is determined by the type of aircraft frequenting the aerial facility and the resulting gallons per minute of fire fighting agent required. This vehicle provides aircrew, passenger, weapons, and airframe fire protection at a crash site.
- The P-21 Aerial Lift Truck is a fire fighting vehicle with a 105 foot aerial ladder. It provides improved agent delivery over older model vehicles, as well as the capability to provide elevated delivery of agent involving high rise buildings and warehouse facilities.
- The P-22 4x2 and P-24 4x4 Pumper Trucks are designed primarily to fight structural fires. The trucks have a 750-gallon water tank and a 50-gallon Aqueous FilmFoam class "A" foam tank and are capable of applying 1250 gallons per minute. P-24 is built on a rugged 4x4 chassis that equips forces with limited off-road/rugged terrain capability. The P-22 4x2 Pumper Truck has the same fire fighting capability as the P-24, but is used in urban areas.
- The P-23 Crash Truck is a larger version of the P-19 ARFF truck and has a larger fire suppression capacity. It is primarily assigned at transport, bomber, depot, and cargo aircraft bases.
- The P-26 Water Tanker Truck is a 4000-gallon resupply truck used to support the ARFF vehicles, fight wild land fires, and provide mutual assistance to communities.
- The P-29 Wild Land Firefighting Truck is a four-person crew cab truck which contains a modular agent and pump and roll delivery system as well as firefighting tools and equipment. This truck is outfitted with a Compressed Air Foam System (CAFS) and has a 500 gallon water tank. The truck is intended to combat wild land and brush type fires.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 4: Fire Fighting Equipment		<b>P-1 Line Item Number / Title:</b> 824010 / FIRE FIGHTING/CRASH RESCUE VEHICLES
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0202834F, 0901279F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>-- The P-30 is a Medium Rescue Vehicle. It is designed to bring equipment, lighting, a winch, and a generator to the scene of a rescue event. This vehicle has 450 cubic feet of storage space and affords easy equipment access and improved storage compartments. This truck is assigned to the larger industrial bases.</p> <p>-- The P-31 Hazardous Material Vehicle is a dual purpose vehicle that stows and transports hazardous material response equipment for the purpose of mitigating chemical leaks, spills, and releases. This vehicle also provides an incident command workstation area for the purpose of research, command, control, and communications during containment/cleanup operations.</p> <p>-- The P-33 Quint Truck is a fire fighting truck with a 75 foot aerial ladder. It provides improved agent delivery over older models as well as the capability to provide elevated delivery of agent involving high rise and warehouse facilities.</p> <p>-- The P-34 is a first response Air Rescue and Fire Fighting (ARFF) vehicle which equips forces with initial "knock down" capability. The P-34 is the first fire truck to employ Ultra High Pressure (UHP) technology which allows the vehicle to discharge a mixture of water and foam at 1350 psi. This UHP technology makes the vehicle three times more effective than a conventional ARFF truck. The truck has a 400 gallon water tank and a 50 gallon foam tank along with a bumper turret and 200 feet of hand line all mounted on an F-550 chassis.</p> <p>-- The Rapid Intervention Vehicle (RIV) is a first response aircraft fire truck; it is the newest addition to the Air Force's fleet of crash response vehicles. The RIV is the first vehicle in the AF to use new Ultra High Pressure (UHP) fire fighting technology which makes this truck 3 to 3.5 times more efficient at knock-down than conventional ARFF vehicles. This feature increases the length of time the vehicle can remain on the scene without having to be resupplied. Perched on an F550 chassis, the RIV is equipped with a 4-wheel drive train; it provides seating for four, equips fire fighters with limited storage for rescue equipment; has a bumper turret, a 200 ft hand line and a winch. Because of its size, speed and agility this truck can get to a crash scene quickly and perform fire fighting operations until the larger trucks can arrive at the scene.</p> <p>These vehicles are all built to meet the performance standards of the National Fire Protection Association (NFPA), Occupational Safety and Health Administration (OSHA), Federal Aviation Administration (FAA), and Air Force safety regulations.</p> <p>In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>Funding for this exhibit contained in PE 0202834F, 0702831, 0901279F.</p>		



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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 4: Fire Fighting Equipment	<b>P-1 Line Item Number / Title:</b> 824010 / FIRE FIGHTING/CRASH RESCUE VEHICLES
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0202834F, 0901279F
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**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	FIRE FIGHTING/CRASH RESCUE VEHICLES				- / -	- / 10.419	- / 155.041	- / 14.768	- / 22.583	- / 37.351
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 10.419</b>	<b>- / 155.041</b>	<b>- / 14.768</b>	<b>- / 22.583</b>	<b>- / 37.351</b>

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

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

**Justification:**

FY18 procurement dollars in the amount of \$14.768M will procure, but is not limited to, 29 vehicles in support of installation and unit mission requirements for Air Force personnel.

FY18 OCO dollars in the amount of \$22.583M will procure, but is not limited to, 38 vehicles in support of Overseas Contingency Operations.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 4						<b>P-1 Line Item Number / Title:</b> 824010 / FIRE FIGHTING/CRASH RESCUE VEHICLES						<b>Aggregated Items Title:</b> FIRE FIGHTING/CRASH RESCUE VEHICLES							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
TRUCK, AERIAL P-21 4210-01-057-0696	A		-	-	-	844,005.00	1	0.844	834,936.00	3	2.505	-	-	-	-	-	-	-	-	-
TRUCK, PUMPER 4X2 P-22 4210-00-224-4564 <sup>(1)</sup>	A		-	-	-	405,143.00	2	0.810	419,000.00	28	11.732	438,417.00	3	1.315	-	-	0.877	730,695.00	3	2.192
TRUCK, PUMPER 4X4 P-24 4210-00-233-1538 <sup>(2)</sup>	A		-	-	-	481,520.00	1	0.482	451,120.00	37	16.691	489,102.00	2	0.978	489,102.00	4	1.956	489,102.00	6	2.935
TRK FIRE CRS STRIKER 4210-00-702-6801	A		-	-	-	-	-	-	875,750.00	2	1.752	-	-	-	-	-	-	-	-	-
TRUCK, WATER TANKER P-26 4210-01-356-4907 <sup>(3)</sup>	A		-	-	-	277,684.00	7	1.944	306,500.00	33	10.115	308,442.00	6	1.851	308,442.00	5	1.542	308,442.00	11	3.393
VEHICLE, MEDIUM RESCUE P-30 4210-01-452-5121	A		-	-	-	-	-	-	255,070.00	13	3.316	-	-	-	-	-	-	-	-	-
TRUCK, QUINT P-33 4210-01-500-1083 <sup>(4)</sup>	A		-	-	-	-	-	-	618,770.00	16	9.900	628,794.00	1	0.629	-	-	-	628,794.00	1	0.629
TRUCK, WILDLAND P-29 4210-01-483-1025	A		-	-	-	-	-	-	340,143.00	12	4.082	-	-	-	405,257.00	1	0.405	405,257.00	1	0.405
TRUCK, HEAVY RESCUE P-28 4210-01-369-6048 <sup>(5)</sup>	A		-	-	-	-	-	-	460,333.00	5	2.302	-	-	-	-	-	-	-	-	-
TRUCK, QUICK ATTACK P-34 4210-01-553-4534	A		-	-	-	-	-	-	203,470.00	14	2.849	-	-	-	341,417.00	1	0.341	341,417.00	1	0.341
TRUCK, HAZMAT FIRE FIGHTING P31 4210-01-396-5219 <sup>(6)</sup>	A		-	-	-	-	-	-	461,292.00	35	16.145	478,355.00	3	1.435	-	-	-	478,355.00	3	1.435
TRUCK, ARFF P19UHP 4210-01-608-7285 <sup>(7)</sup>	A		-	-	-	613,882.00	5	3.069	620,179.00	58	35.970	627,536.00	7	4.393	627,536.00	19	11.923	627,536.00	26	16.316
TRK FIRE P23 4210-01-625-9765	A		-	-	-	-	-	-	658,032.00	5	3.290	-	-	-	-	-	-	-	-	-
TRUCK, ARFF P23UHP 4210-01-608-7287 <sup>(8)</sup>	A		-	-	-	648,085.00	5	3.240	674,000.00	51	34.374	692,176.00	6	4.153	692,176.00	8	5.537	692,176.00	14	9.690
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.030	19,000.00	1	0.019	14,300.00	1	0.014	-	-	0.000	14,300.00	1	0.014

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 4	<b>P-1 Line Item Number / Title:</b> 824010 / FIRE FIGHTING/CRASH RESCUE VEHICLES	<b>Aggregated Items Title:</b> FIRE FIGHTING/CRASH RESCUE VEHICLES
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	10.419	-	-	155.041	-	-	14.768	-	-	22.583	-	-	37.351
<b>Total</b>			-	-	-	-	-	10.419	-	-	155.041	-	-	14.768	-	-	22.583	-	-	37.351

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

**Remarks:**

Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.

Unit Costs for FY18 are subject to change.

PMA Justification

PROGRAM MANAGEMENT ADMINISTRATION (PMA): PMA supports the operation of the program office in its management and oversight role via travel, procurement of supplies and Advisory and Administrative Services (A&AS).

**Footnotes:**

- (1) FY17 - 16 EA OCO FUNDS \$6.704M
- (2) FY17 - 17 EA OCO FUNDS \$7.669M
- (3) FY17 - 4 EA OCO FUNDS \$1.226M
- (4) FY17 - 13EA OCO FUNDS \$8.044M
- (5) FY17 - 1 EA OCO FUNDS \$0.460M
- (6) FY17 - 11 EA OCO FUNDS \$5.074M
- (7) FY17 - 15 EA OCO FUNDS \$9.303M
- (8) FY17 - 15 EA OCO FUNDS \$10.110M

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 5: Materials Handling Equipment	<b>P-1 Line Item Number / Title:</b> 825990 / Materials Handling Vehicles
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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> )	-	24.160	118.480	13.561	5.353	18.914	15.257	20.080	21.830	22.059	-	240.780
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	24.160	118.480	13.561	5.353	18.914	15.257	20.080	21.830	22.059	-	240.780
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>24.160</b>	<b>118.480</b>	<b>13.561</b>	<b>5.353</b>	<b>18.914</b>	<b>15.257</b>	<b>20.080</b>	<b>21.830</b>	<b>22.059</b>	-	<b>240.780</b>

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

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

**Description:**

FY17 funding totals include \$2.366M appropriated for Overseas Contingency Operations.

This program includes various material handling vehicles with an individual item procurement value of less than \$5M. These vehicles consist of Forklifts, Container Handlers, Baggage Conveyors, Warehouse Tugs and Warehouse Cranes critical to Depot and Base Supply Operations.

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 these exhibits contained in PEs: 0202834F, 0207597F, 0208028F, 0401221F, 0502834F, 0702831F.

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	152	1,129	116	48	164	0	0	0	0
	Total Obligation Authority	23.701	115.663	11.167	5.353	16.520	0.000	0.000	0.000	0.000
AFNG	Quantity	0	0	0	0	0	0	0	0	0
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AFR	Quantity	8	31	30	0	30	0	0	0	0
	Total Obligation Authority	0.459	2.817	2.394	0.000	2.394	0.000	0.000	0.000	0.000
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>160</b>	<b>1,160</b>	<b>146</b>	<b>48</b>	<b>194</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total Obligation Authority</b>	<b>24.160</b>	<b>118.480</b>	<b>13.561</b>	<b>5.353</b>	<b>18.914</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 5: Materials Handling Equipment		<b>P-1 Line Item Number / Title:</b> 825990 / Materials Handling Vehicles
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<b>Justification:</b> FY18 procurement dollars in the amount of \$13.561M will procure, but is not limited to 146 vehicles in support of installation and unit mission requirements for Air Force personnel.  FY18 OCO dollars in the amount of \$5.353M will procure, but is not limited to, 48 vehicles in support of Overseas Contingency Operations.		

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base Maintenance Support	<b>P-1 Line Item Number / Title:</b> 826210 / Runway Snow Remov & Cleaning Equip
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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> )	-	6.855	78.778	3.429	11.315	14.744	2.870	2.863	2.916	2.970	-	111.996
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	6.855	78.778	3.429	11.315	14.744	2.870	2.863	2.916	2.970	-	111.996
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>6.855</b>	<b>78.778</b>	<b>3.429</b>	<b>11.315</b>	<b>14.744</b>	<b>2.870</b>	<b>2.863</b>	<b>2.916</b>	<b>2.970</b>	-	<b>111.996</b>

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

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

**Description:**

This program procures snow removal vehicles and commercial sweepers used on all airfield surfaces to remove snow and help prevent foreign object damage (FOD) to aircraft engines and tires. Snow removal equipment includes front mounted brooms, multi-purpose blowers, and plows. These vehicles provide critical mission support to airfield operations because fighter aircraft cannot land or take off with ice on the runway. Multi-purpose vacuum sweepers maintain airfields, roads, and grounds. Vacuum sweepers provide equally important support at all air bases due to the high cost of FOD and the potential for loss in FOD-related engine accidents.

These assets are critical to the Air Force mission. They are the primary equipment used for snow, ice, and debris removal from runways and taxiways year round. The vital functions of these vehicles prevent the closing of airfields due to debris and/or snow and ice buildup.

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 contained in PEs: 0202834F, 0208028F, 0502834F, 0502844F, 0702831F.

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	30	28	12	47	59	0	0	0	0
	Total Obligation Authority	5.981	8.364	3.051	11.315	14.366	0.000	0.000	0.000	0.000
AFNG	Quantity	5	2	1	0	1	0	0	0	0
	Total Obligation Authority	0.874	0.340	0.303	0.000	0.303	0.000	0.000	0.000	0.000
AFR	Quantity	0	1	1	0	1	0	0	0	0
	Total Obligation Authority	0.000	0.074	0.075	0.000	0.075	0.000	0.000	0.000	0.000
<b>Total:</b>	<b>Quantity</b>	<b>35</b>	<b>31</b>	<b>14</b>	<b>47</b>	<b>61</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base Maintenance Support	<b>P-1 Line Item Number / Title:</b> 826210 / Runway Snow Remov & Cleaning Equip
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

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	6.855	8.778	3.429	11.315	14.744	0.000	0.000	0.000	0.000

**Justification:**

FY18 procurement dollars in the amount of \$3.429M procures, but is not limited to, 14 vehicles in support of installation and unit mission requirements for Air Force Personnel.

FY18 OCO dollars in the amount of \$11.315M will procure, but is not limited to, 47 vehicles in support of Overseas Contingency Operations.



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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base Maintenance Support	<b>P-1 Line Item Number / Title:</b> 826990 / Base Maintenance Support Vehicles
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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> )	-	92.581	180.275	60.075	40.451	100.526	55.673	61.532	62.633	64.020	-	617.240
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	92.581	180.275	60.075	40.451	100.526	55.673	61.532	62.633	64.020	-	617.240
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>92.581</b>	<b>180.275</b>	<b>60.075</b>	<b>40.451</b>	<b>100.526</b>	<b>55.673</b>	<b>61.532</b>	<b>62.633</b>	<b>64.020</b>	-	<b>617.240</b>

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

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

**Description:**

This vehicle group consist of maintenance/test vans, water distribution trucks and heavy construction equipment (dozers, large cranes, large dump trucks, rock crushers, motorized scrapers, well-drilling vehicles, compactors, wheel loaders, graders, cement mixers, paving machines, excavators, sewer trucks, refuse trucks, trenches and backhoes). The assets are critical to the Air Force mission and are crucial to keeping many sortie generation/sortie sustainment missions supported and operational. The types of items contained in this P-1 line are critical (deployed) assets used in direct support of Air Force units engaged in contingency operations.

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 contained in PEs: 0202834F, 0207597, 0208028F, 0401221F, 0502834F, 0502844F, 0702831F.

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	624	956	321	135	456	0	0	0	0
	Total Obligation Authority	82.774	177.544	57.751	40.451	98.201	0.000	0.000	0.000	0.000
AFNG	Quantity	22	11	19	0	19	0	0	0	0
	Total Obligation Authority	5.980	2.402	2.043	0.000	2.043	0.000	0.000	0.000	0.000
AFR	Quantity	30	4	4	0	4	0	0	0	0
	Total Obligation Authority	3.827	0.329	0.281	0.000	0.281	0.000	0.000	0.000	0.000
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>676</b>	<b>971</b>	<b>344</b>	<b>135</b>	<b>479</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total Obligation Authority</b>	<b>92.581</b>	<b>180.275</b>	<b>60.075</b>	<b>40.451</b>	<b>100.526</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base Maintenance Support

**P-1 Line Item Number / Title:**  
826990 / Base Maintenance Support Vehicles

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

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

Exhibits Schedule					Prior Years	FY 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	Base Maintenance Support Vehicles				- / -	- / 92.581	- / 180.275	- / 60.075	- / 40.451	- / 100.526
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 92.581</b>	<b>- / 180.275</b>	<b>- / 60.075</b>	<b>- / 40.451</b>	<b>- / 100.526</b>

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

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

**Justification:**

FY18 Procurement dollars in the amount of \$60.075M will procure but not limited to 344 vehicles in support of installation and unit mission requirements for Air Force personnel.

FY18 OCO dollars in the amount of \$40.451M will procure, but is not limited to, 135 vehicles in support of Overseas Contingency Operations.

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles						Aggregated Items Title: Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
USAFE ERI OCO FUNDING PLACEHOLDER. FUNDS BEING MOVED TO BPAC 5990.	A		-	-	-	1,200K	4	4.800	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		4	4.800		-	-		-	-	-		-	-	-	
DUMP TRUCK, 6X4, 64k GVW (2320-01-524-6043)	A		-	-	-				163,683.00	6	0.982		-	-	-		-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-					6	0.982		-	-	-		-	-	-	
BATCHING PLANT (3895-01-063-2722)	A		-	-	-	1,192K	1	1.192		-	-		-	-	-		-	-	-	
<i>Secondary Distribution</i>																				
AFNG			-	-	-		1	1.192		-	-		-	-	-		-	-	-	
TRNHR FRA MTD (3805-01-068-4303)	A		-	-	-	111,709.00	1	0.112		-	-		-	-	-		-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.112		-	-		-	-	-		-	-	-	
TRENCHER 45HP (3805-01-395-2699)	A		-	-	-	110,950.00	1	0.111		-	-		-	-	-		-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.111		-	-		-	-	-		-	-	-	
MKR TRAFFIC (3825-00-542-2515)	A		-	-	-				310,000.00	3	0.930	311,000.00	4	1.244	311,000.00	6	1.866	311,000.00	10	3.110
<i>Secondary Distribution</i>																				
AF			-	-	-					3	0.930		4	1.244		6	1.866		10	3.110
TRAC WHLD IND 4WD (2420-01-205-8579)	A		-	-	-	86,248.00	17	1.466	53,312.00	12	0.640		-	-	-		-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-		12	1.035		12	0.640		-	-	-		-	-	-	
AFNG			-	-	-		5	0.431		-	-		-	-	-		-	-	-	
TRAC FTRACD SZT4 (2410-00-166-4176)	A		-	-	-				118,239.00	5	0.591	119,000.00	8	0.952	119,000.00	6	0.714	119,000.00	14	1.666
<i>Secondary Distribution</i>																				
AF			-	-	-					5	0.591		8	0.952		6	0.714		14	1.666
25T R TERRAIN (3810-01-479-9745)	A		-	-	-	324,764.00	2	0.650	375,000.00	11	4.125		-	-	-		-	-	-	

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles						Aggregated Items Title: Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		2	0.650		11	4.125		-	-		-	-		-	
FRONT HOIST REF TRK (2320-01-470-6102)	A		-	-	-	-	-	-	208,124.00	2	0.416	209,000.00	1	0.209	209,000.00	5	1.045	209,000.00	6	1.254
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.416		1	0.209		5	1.045		6	1.254
SCOOP LOADER (3805-00-260-1967)	A		-	-	-	145,452.00	2	0.291	148,527.00	10	1.485	149,000.00	7	1.043	149,000.00	4	0.596	149,000.00	11	1.639
<i>Secondary Distribution</i>																				
AF				-	-		2	0.291		10	1.485		6	0.894		4	0.596		10	1.490
AFNG				-	-		-	-		-	-		1	0.149		-	-		1	0.149
TRK DP 24000-33000G 4X2 (2320-00-833-6117)	A		-	-	-	79,529.00	48	3.817	81,599.00	15	1.224	82,000.00	24	1.968	82,000.00	3	0.246	82,000.00	27	2.214
<i>Secondary Distribution</i>																				
AF				-	-		47	3.738		15	1.224		13	1.066		3	0.246		16	1.312
AFNG				-	-		-	-		-	-		8	0.656		-	-		8	0.656
AFR				-	-		1	0.080		-	-		3	0.246		-	-		3	0.246
8.5T CRANE (3810-01-538-4647)	A		-	-	-	-	-	-	145,974.00	3	0.438	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	0.438		-	-		-	-		-	-
CARRIER CARGO 4PAX (2350-01-615-0415)	A		-	-	-	162,775.00	2	0.326	164,760.00	3	0.494	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		2	0.326		3	0.494		-	-		-	-		-	-
DUMP TRK W/ SNOWPLOW (2320-01-206-9156)	A		-	-	-	-	-	-	136,568.00	3	0.410	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	0.410		-	-		-	-		-	-
5 TON DUMP TRUCK (2320-00-706-5348)	A		-	-	-	113,078.00	2	0.226	107,531.00	6	0.645	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.113		5	0.538		-	-		-	-		-	-
AFNG				-	-		1	0.113		-	-		-	-		-	-		-	-
AFR				-	-		-	-		1	0.108		-	-		-	-		-	-

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles						Aggregated Items Title: Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.5 CY SCOOP LOADER FT (3805-00-728-9718)	A		-	-	-	-	-	-	251,022.00	2	0.502	252,000.00	11	2.772	252,000.00	8	2.016	252,000.00	19	4.788
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		2	0.502		11	2.772		8	2.016		19	4.788
EXCAVATOR DIESEL ENGINE DRIVEN PT (3805-01-106-7176) (1)	A		-	-	-	229,850.00	27	6.206	239,849.00	45	10.793	108,200.00	2	0.216	108,200.00	5	0.541	108,200.00	7	0.757
<i>Secondary Distribution</i>																				
AF			-	-	-		27	6.206		45	10.793		2	0.216		5	0.541		7	0.757
WHEELED DITCHING MACHINE (3805-01-032-9974)	A		-	-	-	-	-	-	197,205.00	20	3.944	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		20	3.944	-	-	-	-	-	-	-	-	-
1.5 CY SCOOP LDR W/Q CPLR (3805-01-074-8111)	A		-	-	-	115,595.00	19	2.196	125,326.00	7	0.877	126,000.00	30	3.780	126,000.00	5	0.630	126,000.00	35	4.410
<i>Secondary Distribution</i>																				
AF			-	-	-		14	1.618		6	0.752		23	2.898		5	0.630		28	3.528
AFNG			-	-	-		4	0.462		-	-		7	0.882		-	-		7	0.882
AFR			-	-	-		1	0.116		1	0.125		-	-		-	-		-	-
4 CY SCOOP LDR PT (3805-01-075-1816) (2)	A		-	-	-	224,400.00	23	5.161	228,930.00	75	17.170	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		23	5.161		75	17.170	-	-	-	-	-	-	-	-	-
SCOOP LDR W/BKHOE (3805-00-148-2169)	A		-	-	-	78,989.00	4	0.316	82,952.00	57	4.728	83,500.00	20	1.670	83,500.00	3	0.251	83,500.00	23	1.921
<i>Secondary Distribution</i>																				
AF			-	-	-		3	0.237		57	4.728		20	1.670		3	0.251		23	1.921
AFNG			-	-	-		1	0.079		-	-		-	-		-	-		-	-
SCOOP LOADER, SKID STEER 1CY (3805-01-257-5636)	A		-	-	-	50,272.00	4	0.201	119,172.00	27	3.218	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		4	0.201		27	3.218	-	-	-	-	-	-	-	-	-
DISTR BIT TRK MTD (3895-00-352-8105)	A		-	-	-	169,497.00	1	0.169	169,497.00	2	0.339	170,273.00	17	2.895	170,273.00	6	1.022	170,273.00	23	3.916
<i>Secondary Distribution</i>																				

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles						Aggregated Items Title: Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
AF				-	-		1	0.169		2	0.339		17	2.895		6	1.022		23	3.916
PAVING MACH BITU (3895-01-057-5288)	A		-	-	-	315,349.00	3	0.946	-	-	-	334,000.00	2	0.668	334,000.00	4	1.336	334,000.00	6	2.004
<i>Secondary Distribution</i>																				
AF				-	-		2	0.631		-	-		2	0.668		4	1.336		6	2.004
AFNG				-	-		1	0.315		-	-		-	-		-	-		-	-
ROLLER MOT PT SP 15T (3895-00-078-5898) (3)	A		-	-	-	71,292.00	23	1.640	86,722.00	7	0.607	88,000.00	8	0.704	88,000.00	6	0.528	88,000.00	14	1.232
<i>Secondary Distribution</i>																				
AF				-	-		23	1.640		7	0.607		7	0.616		6	0.528		13	1.144
AFNG				-	-		-	-		-	-		1	0.088		-	-		1	0.088
RLR RD TAND 2RL (3895-00-243-6797)	A		-	-	-	35,863.00	1	0.036	35,200.00	4	0.141	35,214.00	34	1.197	35,214.00	3	0.106	35,214.00	37	1.303
<i>Secondary Distribution</i>																				
AF				-	-		1	0.036		3	0.106		33	1.162		3	0.106		36	1.268
AFNG				-	-		-	-		1	0.035		-	-		-	-		-	-
AFR				-	-		-	-		-	-		1	0.035		-	-		1	0.035
RLR VIB TYPE II (3895-01-071-5625) (4)	A		-	-	-	112,409.00	7	0.787	148,129.00	43	6.370	150,000.00	30	4.500	150,000.00	5	0.750	150,000.00	35	5.250
<i>Secondary Distribution</i>																				
AF				-	-		7	0.787		42	6.221		30	4.500		5	0.750		35	5.250
AFNG				-	-		-	-		1	0.148		-	-		-	-		-	-
1500G WATER DISTR (3825-00-554-1808) (5)	A		-	-	-	123,397.00	41	5.059	190,920.00	54	10.310	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		41	5.059		54	10.310		-	-		-	-		-	-
TRAC IND IW-70 (2420-00-113-8984)	A		-	-	-	40,695.00	5	0.203	48,269.00	19	0.917	67,224.00	6	0.403	67,224.00	4	0.269	67,224.00	10	0.672
<i>Secondary Distribution</i>																				
AF				-	-		3	0.122		17	0.821		6	0.403		4	0.269		10	0.672
AFNG				-	-		2	0.081		-	-		-	-		-	-		-	-
AFR				-	-		-	-		2	0.097		-	-		-	-		-	-
DOZER T7 (2410-00-756-1161)	A		-	-	-	276,360.00	1	0.276	281,399.00	10	2.814	713,498.00	2	1.427	713,498.00	3	2.140	713,498.00	5	3.567
<i>Secondary Distribution</i>																				

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles						Aggregated Items Title: Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
AF				-	-		1	0.276		9	2.533		2	1.427		3	2.140		5	3.567
AFNG				-	-		-	-		1	0.281		-	-		-	-		-	-
GRADER, SIZE V, TYPE III (3805-01-337-4624)	A		-	-	-	207,907.00	6	1.247	311,615.00	30	9.348	312,000.00	16	4.992	312,000.00	4	1.248	312,000.00	20	6.240
<i>Secondary Distribution</i>																				
AF				-	-		6	1.247		30	9.348		16	4.992		4	1.248		20	6.240
TRACTOR, WHLD IND. (2420-01-536-8542)	A		-	-	-	145,892.00	1	0.146	147,585.00	1	0.148	149,492.00	73	10.913	149,492.00	8	1.196	149,492.00	81	12.109
<i>Secondary Distribution</i>																				
AF				-	-		1	0.146		1	0.148		73	10.913		8	1.196		81	12.109
SEWER TRK TANDEM AXLE (2320-01-500-5501)	A		-	-	-	405,759.00	1	0.406	401,250.00	5	2.006	415,000.00	2	0.830	415,000.00	3	1.245	415,000.00	5	2.075
<i>Secondary Distribution</i>																				
AF				-	-		1	0.406		5	2.006		2	0.830		3	1.245		5	2.075
WATER WAGON (3825-01-539-6813)	A		-	-	-	-	-	-	109,407.00	1	0.109	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.109		-	-		-	-		-	-
TLR DITCHING MACH (2330-01-079-4053)	A		-	-	-	16,223.00	15	0.243	32,500.00	24	0.780	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		15	0.243		23	0.748		-	-		-	-		-	-
AFNG				-	-		-	-		1	0.033		-	-		-	-		-	-
CR HYD TRK 100-150T (3810-01-259-9992)	A		-	-	-	-	-	-	968,353.00	1	0.968	969,000.00	1	0.969	969,000.00	6	5.814	969,000.00	7	6.783
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.968		1	0.969		6	5.814		7	6.783
GRADER, SZ 6 (3805-01-373-5314)	A		-	-	-	177,813.00	1	0.178	200,855.00	6	1.205	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.178		6	1.205		-	-		-	-		-	-
7.5 T CRANE (3810-01-106-3991)	A		-	-	-	302,548.00	1	0.303	305,805.00	7	2.141	308,548.00	2	0.617	308,548.00	3	0.926	308,548.00	5	1.543
<i>Secondary Distribution</i>																				
AF				-	-		1	0.303		7	2.141		2	0.617		3	0.926		5	1.543

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles						Aggregated Items Title: Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
TLR MANHOLE CLNR (2330-00-307-3295)	A		-	-	-	54,821.00	3	0.164	54,950.00	3	0.165	55,000.00	10	0.550	55,000.00	6	0.330	55,000.00	16	0.880
<i>Secondary Distribution</i>																				
AF			-	-	-		3	0.164		3	0.165		10	0.550		6	0.330		16	0.880
TRUCK, DUMP (2320-01-344-9282) (6)	A		-	-	-	132,954.00	108	14.359	143,753.00	196	28.176	139,254.00	2	0.279	139,254.00	4	0.557	139,254.00	6	0.836
<i>Secondary Distribution</i>																				
AF			-	-	-		82	10.902		196	28.176		2	0.279		4	0.557		6	0.836
AFR			-	-	-		26	3.457		-	-		-	-		-	-		-	-
COMPACTOR TRACK LOADER (3805-01-603-8653) (7)	A		-	-	-	112,580.00	100	11.258	148,066.00	25	3.702	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		100	11.258		25	3.702		-	-		-	-		-	-
DRIER-MXR, BIT CONCR (3895-01-624-1958) (8)	A		-	-	-	152,637.00	40	6.105	253,553.00	16	4.057	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		40	6.105		16	4.057		-	-		-	-		-	-
2000 GAL WATER TANK (3825-01-624-1963) (9)	A		-	-	-	65,501.00	91	5.961	82,489.00	16	1.320	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		91	5.961		16	1.320		-	-		-	-		-	-
MIXER, BITUMINOUS MA (3895-01-627-1341) (10)	A		-	-	-	203,040.00	8	1.624	358,820.00	2	0.718	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		8	1.624		2	0.718		-	-		-	-		-	-
T11 DOZER (2410-00-731-7872)	A		-	-	-	-	-	-	-	-	-	581,000.00	12	6.972	581,000.00	3	1.743	581,000.00	15	8.715
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		12	6.972		3	1.743		15	8.715
MIXER CON TRLR MTD (3895-01-005-5422)	A		-	-	-	224,903.00	7	1.574	287,500.00	5	1.438	-	-	-	-	-	-	-	-	-



**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles						Aggregated Items Title: Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		6	1.349		5	1.438		-	-		-	-		-	-
AFNG				-	-		1	0.225		-	-		-	-		-	-		-	-
COMPACT EXCAVATOR CRAWLER (3805-01-565-8767)	A			-	-	40,484.00	6	0.243	42,350.00	9	0.381	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		6	0.243		9	0.381		-	-		-	-		-	-
SCRAPPER MOTORIZED 18CY (3805-00-234-9778)	A			-	-	729,793.00	2	1.460	460,833.00	5	2.304	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		2	1.460		5	2.304		-	-		-	-		-	-
CRUSH-SCREEN 150TH (3820-00-060-1841)	A			-	-	-	-	-	-	-	-	2,323K	1	2.323	2,323K	3	6.970	2,323K	4	9.293
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		1	2.323		3	6.970		4	9.293
T7 DOZER (2410-00-816-5091)	A			-	-	-	-	-	285,399.00	4	1.142	488,146.00	6	2.929	488,146.00	4	1.953	488,146.00	10	4.881
<i>Secondary Distribution</i>																				
AF				-	-		-	-		4	1.142		6	2.929		4	1.953		10	4.881
SEMI TRAILER DUMP (2330-00-141-5567)	A			-	-	-	-	-	42,432.00	1	0.042	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.042		-	-		-	-		-	-
TRK CNTRN-MAINT 4X2 SZ 5 (2320-01-030-7370)	A			-	-	-	-	-	106,167.00	2	0.212	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.106		-	-		-	-		-	-
AFNG				-	-		-	-		1	0.106		-	-		-	-		-	-
CLNR SEWER JET RODDER (2320-01-372-1823)	A			-	-	-	-	-	289,769.00	1	0.290	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.290		-	-		-	-		-	-
STLR CG 6000PSI 47700SC (2330-01-112-3836)	A			-	-	-	-	-	389,097.00	3	1.167	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity:						P-1 Line Item Number / Title:						Aggregated Items Title:								
3080F / 02 / 6						826990 / Base Maintenance Support Vehicles						Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	1.167		-	-		-	-		-	
CARR PERS ARMD (2350-00-968-6321)	A		-	-	-	-	-	77,714.00	2	0.155	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.155		-	-		-	-		-	
TRAC WHLD W-DOZER (2420-00-540-3881)	A		-	-	-	651,357.00	1	0.651	528,494.00	6	3.171	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.651		6	3.171		-	-		-	-		-	
TRACTOR WHLD IND 90HP(2420-01-406-2995)	A		-	-	-	58,506.00	16	0.936	43,265.00	7	0.303	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		15	0.878		7	0.303		-	-		-	-		-	
AFNG				-	-		1	0.059		-	-		-	-		-	-		-	
LOADER SKID STEER TRACK MTD (3805-00-278-1245)	A		-	-	-	59,434.00	2	0.119	119,172.00	11	1.311	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.059		11	1.311		-	-		-	-		-	
AFNG				-	-		1	0.059		-	-		-	-		-	-		-	
50 TON CRANE (3810-00-272-9031)	A		-	-	-	590,609.00	1	0.591	624,130.00	3	1.872	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.591		2	1.248		-	-		-	-		-	
AFNG				-	-		-	-		1	0.624		-	-		-	-		-	
CR WHLD HYD 15T (3810-00-329-4154)	A		-	-	-	343,001.00	1	0.343	352,418.00	9	3.172	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.343		9	3.172		-	-		-	-		-	
CR MSL ENG CHG 8 1-2T (3810-00-827-9352)	A		-	-	-	-	-	-	511,970.00	1	0.512	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.512		-	-		-	-		-	
CR HYD TRK MTD 60-65T (3810-01-038-8315)	A		-	-	-	526,856.00	1	0.527	695,279.00	1	0.695	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles						Aggregated Items Title: Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
AF				-	-		1	0.527		1	0.695		-	-		-	-		-	-
CRANE HYDRAULIC 15T (3810-01-485-8693)	A		-	-	-	174,018.00	1	0.174	196,330.00	5	0.982	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.174		5	0.982		-	-		-	-		-	-
CRANE TRK MTD 28 TON (3810-001-506-6637)	A		-	-	-	-	-	-	265,635.00	4	1.063	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		4	1.063		-	-		-	-		-	-
DISTR WTR STLTR (3825-00-570-3417)	A		-	-	-	124,067.00	3	0.372	121,031.00	3	0.363	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.124		3	0.363		-	-		-	-		-	-
AFNG				-	-		2	0.248		-	-		-	-		-	-		-	-
PAVEMENT PROFILER (3895-01-108-3606)	A		-	-	-	-	-	-	357,960.00	7	2.506	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		7	2.506		-	-		-	-		-	-
ROLLER MOTORIZED (3895-01-603-8654)	A		-	-	-	28,934.00	4	0.116	41,500.00	9	0.374	42,000.00	4	0.168	42,000.00	4	0.168	42,000.00	8	0.336
<i>Secondary Distribution</i>																				
AF				-	-		4	0.116		9	0.374		4	0.168		4	0.168		8	0.336
DUMP TRUCK 6X4 55K GVW (2320-01-058-5725)	A		-	-	-	129,512.00	1	0.130	103,653.00	16	1.658	134,000.00	4	0.536	134,000.00	3	0.402	134,000.00	7	0.938
<i>Secondary Distribution</i>																				
AF				-	-		-	-		15	1.555		2	0.268		3	0.402		5	0.670
AFNG				-	-		-	-		1	0.104		2	0.268		-	-		2	0.268
AFR				-	-		1	0.130		-	-		-	-		-	-		-	-
EXCAVATOR CRAWLER MTD (3805-01-058-3562)	A		-	-	-	177,742.00	3	0.533	201,239.33	6	1.207	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		3	0.533		5	1.006		-	-		-	-		-	-
AFNG				-	-		-	-		1	0.201		-	-		-	-		-	-
MIXER CONCRETE TM 6-8 CY (3895-00-834-6124)	A		-	-	-	-	-	-	289,928.00	18	5.219	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles						Aggregated Items Title: Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		-	-		15	4.349		-	-		-	-		-	
AFNG				-	-		-	-		3	0.870		-	-		-	-		-	
CRUSHING PLANT (3820-01-218-0595)	A			-	-	500,979.00	1	0.501	-	-	-	502,862.00	3	1.509	502,862.00	6	3.017	502,862.00	9	4.526
<i>Secondary Distribution</i>																				
AF				-	-		1	0.501		-	-		3	1.509		6	3.017		9	4.526
PAVING (3895-00-190-3313)	A			-	-	383,196.00	1	0.383	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.383		-	-		-	-		-	-		-	-
EXCAVATOR TRK MTD (3805-00-618-7337)	A			-	-	395,944.00	1	0.396	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.396		-	-		-	-		-	-		-	-
DRILL ROCK (3820-00-050-9964)	A			-	-	-	-	-	451,894.00	2	0.904	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.904		-	-		-	-		-	-
DIGGER STRAINER TWD (3805-00-202-7377)	A			-	-	45,605.00	1	0.046	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AFR				-	-		1	0.046		-	-		-	-		-	-		-	-
WELL DRLG MACH (3820-00-286-9196)	A			-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELL DRLG MACH (3820-01-154-6589)	A			-	-	2,288K	1	2.288	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AFNG				-	-		1	2.288		-	-		-	-		-	-		-	-
DRIER MXR BIT-CNRT (3895-00-554-5162)	A			-	-	30,472.00	1	0.030	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.030		-	-		-	-		-	-		-	-
COMPACT SHEEPS FOOT (3805-01-359-7626)	A			-	-	425,969.00	2	0.852	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.426		-	-		-	-		-	-		-	-

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 02 / 6 **P-1 Line Item Number / Title:** 826990 / Base Maintenance Support Vehicles **Aggregated Items Title:** Base Maintenance Support Vehicles

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
AFNG				-	-		1	0.426		-	-		-	-		-	-		-	-	
SEWER TRK SINGLE AXLE (2320-01-501-8524)	A		-	-	-	367,982.00	1	0.368	367,982.00	45	16.559		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		1	0.368		45	16.559		-	-		-	-		-	-	
50T CRANE (3810-01-079-8358)	A		-	-	-	385,035.00	2	0.770	-	-	-	413,569.00	2	0.827	413,569.00	2	0.827	413,569.00	4	1.654	
<i>Secondary Distribution</i>																					
AF				-	-		2	0.770		-	-		2	0.827		2	0.827		4	1.654	
WHLD HYD 15T (3810-00-554-4103)	A		-	-	-	-	-	-	657,000.00	2	1.314		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		-	-		2	1.314		-	-		-	-		-	-	
PAVER CONCRETE SLIP (3895-01-535-4275)	A		-	-	-	440,818.00	1	0.441	-	-	-		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		1	0.441		-	-		-	-		-	-		-	-	
RUBBER REMOVAL TRK (3805-01-592-7853)	A		-	-	-	554,726.00	1	0.555	-	-	-		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		1	0.555		-	-		-	-		-	-		-	-	
TAC WHLD MULTI (2420-01-366-6796)	A		-	-	0.000	-	-	-	-	-	-		-	-		-	-		-	-	
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	-	-	-	0.007		-	-	0.013		-	-		-	0.013
<i>Secondary Distribution</i>																					
AF				-	-		-	-		-	0.007		-	-	0.013		-	-		-	0.013
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>92.581</b>	-	-	<b>180.275</b>	-	-	<b>60.075</b>	-	-	<b>40.451</b>	-	-	<b>100.526</b>	
<b>Total</b>			-	-	-	-	-	<b>92.581</b>	-	-	<b>180.275</b>	-	-	<b>60.075</b>	-	-	<b>40.451</b>	-	-	<b>100.526</b>	

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

**Remarks:**  
Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.

UNIT COSTS FOR FY18 ARE SUBJECT TO CHANGE.

PROGRAM MANAGEMENT ADMINISTRATION(PMA): PMA supports the operation of the program office in its management and oversight role via travel, procurement of supplies and Advisory and administrative Services(A&AS).

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 02 / 6	<b>P-1 Line Item Number / Title:</b> 826990 / Base Maintenance Support Vehicles	<b>Aggregated Items Title:</b> Base Maintenance Support Vehicles

**Footnotes:**

- (1) FY16 Airfield Damage Repair (ADR) Requirement Quantity 27.
- (2) FY16 Airfield Damage Repair (ADR) Requirement Quantity 23.
- (3) FY16 Airfield Damage Repair (ADR) Requirements Quantity 22.
- (4) FY16 Airfield Damage Repair (ADR) Requirements Quantity 6.
- (5) FY16 Airfield Damage Repair (ADR) Requirements Quantity 23.
- (6) FY16 Airfield Damage Repair (ADR) Requirement Quantity 33.
- (7) FY16 Airfield Damage Repair (ADR) Requirement Quantity 100.
- (8) FY16 Airfield Damage Repair (ADR) Requirements Quantity 40.
- (9) FY16 Airfield Damage Repair (ADR) Requirements Quantity 91
- (10) FY16 Airfield Damage Repair (ADR) Requirement Quantity 8.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 83080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec) **P-1 Line Item Number / Title:** 831010 / Comsec Equipment

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0207448F **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> )	-	136.998	80.359	115.000	0.000	115.000	103.008	90.630	92.704	114.852	-	733.551
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	136.998	80.359	115.000	0.000	115.000	103.008	90.630	92.704	114.852	-	733.551
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>136.998</b>	<b>80.359</b>	<b>115.000</b>	<b>0.000</b>	<b>115.000</b>	<b>103.008</b>	<b>90.630</b>	<b>92.704</b>	<b>114.852</b>	-	<b>733.551</b>

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

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

**Description:**

PE 0207448F C2ISR TACTICAL DATA LINK

Assistant Secretary of Defense/Command, Control, Communications and Intelligence (ASD/C3I) directed implementation of the DoD Cryptographic Modernization Initiative (CMI) on 23 February 2001. Chairman, Joint Chiefs of Staff (CJCS) Notice 6510/NSA 3-9 direct the modernization of all cryptography in military systems in the US, NATO and Coalition nations. To prevent information compromise, the National Security Agency (NSA) mandate requires Link 16 cryptographic systems be upgraded. The CJCS directed a modernization effort at the recommendation of the NSA to modernize equipment and provide enhanced security for Link 16 tactical networks (Cryptographic Modernization Initiative (CM). Likewise, a radio frequency spectrum memorandum of agreement between the DoD and the Department of Transportation mandate the internal frequency remapping of our Link 16 family of terminals to avoid conflict with next generation Federal Aviation Administration radio aids to navigation. These two mandates, among other operational reliability and capability improvements will be satisfied under a Block Upgrade (BU2) effort planned for the Link 16 Multifunctional Information Distribution System (MIDS) Low Volume Terminal (LVT). BU2 will procure new Signal Message Processor (SMP) cards that incorporate the most current NSA mandated cryptographic standards. BU2 will also procure a new Tailored Processor/Ground Multiplexer card, update software and firmware in the MIDS LVT to improve operational reliability and provide the radio the ability to remap the lower frequency range of the terminal. The new cards will be installed in all terminals and spare cards will also be purchased. Crypto mod kit being developed by the Navy as part of MIDS LVT Block Upgrade 2.

PE 0208064F AIR FORCE Operational HQ-Cyber/Cyberspace Command and Control Mission System (C3MS)  
This program is a new start in FY18.

Provides the AFCYBER Commander with the tools necessary to effectively and efficiently plan, monitor, and execute missions in the cyber domain. This includes development and dissemination of Cyberspace Tasking Orders to ensure commander's intent is supported through the application of cyber forces using the latest intelligence. C3MS provides a common operational picture to maintain cyberspace threat activities and integrates cyberspace indications and warnings, analysis, and other actionable intelligence products into overall situational awareness, planning, and execution. In FY18 C3MS will field security patches, vendor unique patches, operating system upgrades, and DoD mandated policy updates. Funding supports capital equipment replacements/updates to maintain security posture and field updates to two locations (1 AD/1 ANG).

PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)		<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0207448F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

Provides defensive counter cyberspace capability that protects the AFNet and DoD network enclaves, to include their associated computer systems, software applications and sensitive operational information against unauthorized intrusion, corruption, and/or destruction.

PE 0303135F PUBLIC KEY INFRASTRUCTURE (PKI)

PKI provides identity management (IDM) services to support warfighter requirements. Air Force IDM programs align with DoD IDM efforts and support DoD IDM Roadmap and Strategic Plan. PKI provides the basic framework and services implemented within DoD to ensure information systems security. It provides the capability to attach digital signatures to electronic documents for identity management, and to encrypt and decrypt electronic documents for secure transmission. PKI-enabled applications afford confidentiality and authentication services to communications and/or network transactions, as well as verification of the data integrity and non-repudiation of those transactions. PKI is one of many security solutions used to protect information and provide attributes enabling authorization access to critical resources in the Air Force Information Networks (AFIN) and is used concurrently with other solutions. Funding supports several different requirement areas to procure infrastructure equipment for the field in support of AFIN, PKI, Evolutionary PKI End User Equipment to include multifactor authentication technologies and authorization services. The current DoD PKI token (DoD Common Access Card (CAC)) is undergoing a gradual evolution towards a higher assurance token. Additionally, Homeland Security Presidential Directive-12 (HSPD-12) mandates a common identification card across the Federal Government. Based on the HSPD-12 requirements, the National Institute of Standards and Technology (NIST) developed Federal Information Processing Standard 201 (FIPS 201) which adds security requirements to the identification card.

PE 0303140F INFORMATION SYSTEMS SECURITY PROGRAM:

This program funds procurement of Communications Security (COMSEC) equipment, ancillary encryption/decryption devices, and related equipment to enable the secure transport of information. ISSP delivers on rising national, DoD, and AF priorities to address cybersecurity threats and increasing warfighter dependence on cyberspace. United States Air Force (AF) and the Department of Defense (DoD) require the capability to collect, process, and disseminate an uninterrupted flow of information while denying an adversary the ability to intercept, collect, destroy, interpret, or manipulate our information flows. Secure communication allows the DoD to achieve and maintain decision superiority, the key to successful application of the military instrument of national power in modern, high-tempo, full spectrum operations. AF COMSEC equipment protects information such as, warfighter positions, mission planning, target strikes, commander's orders, intelligence, force strength, and force readiness. This COMSEC program ensures adversaries cannot interpret, manipulate, or destroy information. When an adversary is capable of interpretation, manipulation, or destruction of the information used by the warfighter, DoD military forces may suffer significant and/or devastating mission degradation that can result in loss of life and resources and/or exceptionally grave damage to national security. The COMSEC program includes equipment upgrades and replacements which incorporate latest and/or best technologies mandated to provide mission critical warfighter secure voice and data communications in tactical, strategic, and network applications for our globally-deployed COMSEC crypto assets supporting both AF and DoD missions. Details of the assets are included in each section's narrative.

PE 0305251F CYBERSPACE OPS AND FORCE SUPPORT

Provides training systems to support defensive counter cyberspace capability training requirements for units that protect the AFNet and DoD network enclaves, to include their associated computer systems, software applications and sensitive operational information. Also supports other procurement requirements related to all Cyber Mission Force (CMF) teams to include the Cyber Protection Teams (CPT), Combat Mission Teams (CMT), Combat Support Teams (CST), National Mission Teams (NMT) and National Protection Teams (NPTs).

Funding for this exhibit contained in PE 0207448F; PE 0208088F; PE 0303135F; PE 0303140F; PE 0305251F.



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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec) **P-1 Line Item Number / Title:** 831010 / Comsec Equipment

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0207448F **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-5	OPERATIONAL HQ - CYBER		B		- / -	- / 0.000	- / 0.000	- / 11.106	- / 0.000	- / 11.106
P-5	AF DEFENSIVE CYBERSPACE OPERATIONS		A		- / -	- / 13.377	- / 30.678	- / 30.586	- / 0.000	- / 30.586
P-5	Public Key Infrastructure (PKI)		A		- / -	35,060 / 2.442	67,240 / 4.005	- / 4.120	- / 0.000	- / 4.120
P-5	Information Systems Security Program		A		- / -	- / 117.551	- / 45.676	- / 69.188	- / 0.000	- / 69.188
P-5	Cyberspace Operations Forces and Force Support		A		- / -	- / 3.628	- / 0.000	- / 0.000	- / 0.000	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 136.998</b>	<b>- / 80.359</b>	<b>- / 115.000</b>	<b>- / 0.000</b>	<b>- / 115.000</b>

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

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

**Justification:**

This program, PE 0208064F COMSEC P-5, is a new start.

PE 0207448F C2ISR TACTICAL DATA LINK

1. LINK-16: FY16 funding was required to ensure the platforms are upgraded in time to meet the 2020 FAA mandate for frequency remapping. The radios included new Crypto Modernization required by NSA to address new re-keying capabilities. No Budget Year FY18 funding requested.

PE 0208064F AIR FORCE Operational HQ-Cyber/Cyberspace Command and Control Mission System (C3MS)

- C3MS HARDWARE AND COMMERCIAL OFF-THE-SHELF SOFTWARE: FY18 funding replaces clients, servers, miscellaneous hardware, and associated software licenses for C3MS sites.
- C3MS PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY18 funding includes provisions for government contract oversight, technical expertise, and program office support associated with the sustainment of C3MS.
- C3MS TRAINING & FIELDING: FY18 funding supports Type 1 training and fielding. As cyber operators enter the force, they will be provided with specialized training at each location.

PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS

1. COMPUTER SECURITY ASSISTANCE PROGRAM (CSAP) COUNTERMEASURES: FY18 funding procures hardware/software necessary for vulnerability analysis, vulnerability identification, countermeasure development, and testing in an environment simulating real-world operational environment. From combat operations to social media use, network bandwidth requirements continue to explode at unprecedented rates. This ever-increasing throughput adds unparalleled threats to targeting AF cyber networks. To thwart adversary strategies, effective and innovative solutions must be implemented. These solutions provide daily support to multiple efforts including U.S. Cyber Command and other Combatant Commanders; 24th Air Force: 624 Operations Center; 67th Network Warfare Wing: 33rd Network Warfare Squadron (NWS) and 26th Network Operations Squadron (NOS); Air Force Network Integration Center, Defense Information Systems Agency, Air Force Office of Special Investigations, and other organizations that are integral to the successful performance of the 318 Cyber Operations Group (COG) mission. Threat relevant and time critical countermeasures are required to maintain the advantage against agile and capable

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)		<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0207448F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>adversaries. Without the CSAP system, the security of AF networks may be compromised due to inadequate facilities needed to innovate, to develop and test new intrusion detection signatures and investigate new technologies and architectures being integrated into AF networks.</p> <p>2. AFCERT: No Budget Year FY18 funding requested.</p> <p>3. CYBERSPACE VULNERABILITY ASSESSMENT /HUNTER: FY18 funding provides a full level and an initial level of CVA/Hunter equipment (the Garrison Interceptor Platform, Mobile interceptor Platform and Deployable Interceptor Platform) to 12 Active duty Cyber Protection Teams (CPTs), six National Cyber Protection Teams (NCPTs), and six Air National Guard (ANG CPTs). Funding provides for subsystem procurements, developing system images and fielding to CPTs, and N-CPTs. Additionally the funding will provide for the recapitalization of 34 Information Operation Fly Away Kit platforms in support of Cyber Protection Teams (CPTs).</p> <p>4. CYBER DEFENSE ANALYSIS: FY18 funding provides equipment for three RF Monitor Systems (Digital Receiver Technology) with extended warranty</p> <p>5. Weapon System Cyber Response (WSCR): FY18 Funds supports the Defensive Cyberspace Operations Cyber Squadron Initiative (CSI) to provide Mission Defense Team (MDT) toolkits to Pathfinder Units. The Pathfinder Units' MDTs will use the Toolkit to provide cyber assurance of the Air Force's core missions. The Toolkit consist of high-performance hardware (laptops, servers and sensors) and a robust software suite that provides several critical functions: 1)Protect and Prevent - Establish Baseline, ID Network Threats/Vulnerabilities, Implement Network Protection Measures and Utilize Situational Awareness Tools; 2)Monitor, Collect, Analyze, and Detect - Establish Real-Time Monitoring, Detect Network Intrusion, ID Threat Indications and Warnings; 3) Incident Response/ Engagement - Execute Counter-Measures, Neutralize Threat, Regain Terrain Control &amp; Capability, Analyze, Report, and Coordinate; 4)Recovery - Conclude Contingency Response, Validate Cyber Security/Compliance, and Return to the Baseline; 5)Tactical &amp; Operational C2. The Cyberspace Vulnerability Assessment/Hunter (CVA/H) Program Management Office (PMO) established teams to procure and field the Toolkits.</p> <p>PE 0305251F CYBERSPACE OPS AND FORCE SUPPORT</p> <p>Provides training systems to support defensive counter cyberspace capability training requirements for units that protect the AFNet and DoD network enclaves, to include their associated computer systems, software applications and sensitive operational information. Also supports other procurement requirements related to all Cyber Mission Force (CMF) teams to include the Cyber Protection Teams (CPT), Combat Mission Teams (CMT), Combat Support Teams (CST), National Mission Teams (NMT) and National Protection Teams (NPTs).</p> <p>PE 0303135F PUBLIC KEY INFRASTRUCTURE (PKI):</p> <p>1. EVOLUTIONARY PKI END USER EQUIPMENT: FY18 funding supports PKI Identity and Access Management needs that must be procured rapidly to strengthen and defend the Air Force Information Network (AFIN) from new and evolving vulnerabilities. Funding and quantities directly support PKI-based software authentication and hardware security afforded by smartcards or other hardware methods, enabling users to authenticate securely to the network. As PKI continues to evolve, there is an increased need for alternative methods of two-factor authentication as well as the introduction of multi-factor authentication methods. The classic paradigm for authentication systems identifies three factors as the cornerstone of authentication: 1) Something you know (e.g., a password or PIN), 2) Something you have (e.g., an ID badge or a cryptographic key), and 3) Something you are (e.g., a fingerprint or biometric data). Multi-factor authentication refers to the use of more than one of the factors. The strength of authentication systems is largely determined by the number of factors incorporated by the system. While the Alternative Tokens (ALT) provide usable two factor authentication for many use cases, the sustainability of continued issuance of such hardware tokens is short-lived for several reasons. This effort will examine alternate e-authentication technologies that may provide appropriate multi-factor authentication for users, privileged users and system administrators.</p> <p>2. AIR FORCE DIRECTORY SERVICES (AFDS): AFDS is one of three pillars of DoD Identity Management. The others are PKI and CAC. AFDS ensures that AF user identities are common and synchronized across directories and information stores of various networks, systems, and applications. AFDS eliminates the disparity of maintaining stove-piped systems and through the use of directory technology, alleviates latency associated with the sharing/replication of identity data attributes. AFDS supports delivery of an enterprise security service and backbone for AF networks (both in-garrison and tactical), by providing AF</p>		

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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0207448F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>user credentials to the AF Network Enterprise and AF system applications. AFDS addresses challenges and enhances AF mission performance through seamless integrated access to the right information anywhere, anytime. AFDS leverages and provides a core meta-directory service that "joins" and synchronizes personal identity data attributes from authoritative AF and DoD repositories for use by all AF systems and applications. FY18 funds will procure hardware, software, and support upgrades.</p> <p>PE 0303140F INFORMATION SYSTEMS SECURITY PROGRAM:</p> <p>1. Space COMSEC Mission: Space COMSEC procures crypto products for ground nodes that link to space assets. Space COMSEC equipment is a foundational element in achieving Air Force space and information superiority. Space COMSEC is an enabler for space system compliance with DoD I 8581.01 - Information Assurance (IA) Policy for Space Systems used by the Department of Defense. Space COMSEC mission provides communications security products and lifecycle sustainment support to all DoD satellite systems and commercial systems supporting DoD missions. It enables secure Command and Control (C2) of satellites and prevents unauthorized access and destruction. It enables secure transmission of satellite system's health status telemetry data (satellite health and relative orbital position) to ground control stations, thus protecting critical information about the capabilities of DoD satellite systems. The capability of a system must be protected from an adversary to avoid exploitation of a system weakness/ limitation, knowledge of which could assist an adversary in a successful mission against DoD military forces and potential loss of life. Space COMSEC also provides secure transmission of information collected by satellite sensors, which provides the warfighter an integrated view of the battle space. Space COMSEC provides for secure SATCOM, positioning, navigation, timing, weather, nuclear detection and early warning missions. Space COMSEC also enables transmission security (TRANSEC) for space platforms. Space COMSEC mission procures crypto end items and logistics elements to support developing and operational space systems. Funding for this effort is in PE 0303140F.</p> <p>a. PRODUCTS: FY17 &amp; FY18 funding moved to APPN 3021 Space Procurement. FY16 funding provided for the production of Space COMSEC products to meet developing and operational space program needs. Space COMSEC products include End Crypto Units (ECU), Embedment Solutions (ES), TRANSEC, and ancillaries. Due to low volume production quantities and high reliability design, Space COMSEC products can range in price from \$10K per unit to \$2M per unit. As a commodity item, Space COMSEC procures standard crypto products, which enable minimized lifecycle footprints. Space COMSEC procures from multiple crypto vendors, however, with the low volume consumption by space programs the space crypto industry base is less than a dozen companies.</p> <p>b. LOGISTICS: FY17 &amp; FY18 funding moved to APPN 3021 Space Procurement. FY16 funding provided for the production of Space COMSEC logistics elements. Space COMSEC products typically have a 20 to 40 year life cycles to support development, launch, and operation of multiple AF and DoD space systems. Space COMSEC is provided as Government Furnished Equipment (GFE) to the space system developing contractors and operational ground stations. Space COMSEC products are high-cost critical assets. They are organically sustained to include component level maintenance exclusively by the AF. Logistics procures the necessary lifecycle sustainment elements required to meet the 40 year mission requirements. Logistics elements include specialized test sets, certified training materials and courses, maintenance manuals, provisioning, and modifications.</p> <p>2. AIR AND GROUND (A&amp;G) COMSEC PROGRAM: The Air and Ground COMSEC Program procures and supports a wide range of secure encryption products supporting AF, inter-service, and various DoD agency customers; and includes items approved under National Security Agency's Commercial COMSEC Evaluation Program (CCEP) such as KIV-7M, Tactical fast lane (TACLANE), and other High Assurance Internet Protocol Encryptor (HAIZE) devices. The program includes equipment upgrades and replacements that incorporate state-of-the-art technologies for mission-critical warfighter secure voice and data communications. The program provides needed upgrades to encryption devices in FY17 and FY18 to comply with NSA's Advanced Cryptographic Capabilities (ACC) directives. The program supports tactical, strategic, and network applications for globally deployed cryptologic assets supporting Air Force and DoD. Supported systems fall within Air Force Information Systems Security and Information Assurance arenas. Funding for this effort is in PE 0303140F.</p> <p>a. IN-LINE NETWORK ENCRYPTORS: Previously called "Network Encryption Systems." FY18 funding fields the new In-Line Network Encryptors (INE) required to maintain the confidentiality, data integrity, and non-repudiation of classified communications. INEs are the mainstay for securing communications used in classified terrestrial and airborne communications networks. The new INEs feature robust data encryption improvements included in the HAIZE Interoperability Specification (HAIZE IS) as well as Internet Protocol Version 6 capability that will improve security and expand the bandwidth of USAF secure Internet Protocol networks.</p>		

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<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>b. LINK ENCRYPTION FAMILY (LEF): FY18 funds provide for the replacement of the legacy LEF with new more secure crypto modernization compliant LEF devices. The LEF provides near real time secure communications for national and command level decision making authorities up to TOP SECRET SCI. The new LEF devices include more robust encryption algorithms, as well as dual channel, increased bandwidth capability, and reprogrammability. NSA has issued classified instructions regarding the use of specific LEF devices.</p> <p>c. AIR AND GROUND COMSEC CONSOLIDATED: The following requirements have been combined into one line: Secure Telephones, COMSEC Acquisition Reform (CAR), Peculiar Support Equipment, Secure Communications Voice/Data, Embedded Encryption Devices, and Telemetry Encryption Devices. FY18 funds procure secure voice/data equipment, DOD Type I COMSEC equipment and commercial cryptography products, testing and support equipment, embedded COMSEC modules, and telemetry devices and Link-16. The Air and Ground COMSEC line is an aggregate of numerous items. Each year the type and/or quantity of items utilized to meet requirements varies; an average unit cost is based on number/type of units planned for purchase.</p> <p>3. CRYPTOGRAPHIC MODERNIZATION: The DoD is transforming its existing operational capabilities to realize a seamless joint network of information and engagement grids that securely link sensors, command and control cells, and tactical units to support current and future warfighting capabilities. This includes cryptographic devices that are more robust, modular, scalable, capable, net-centric, and durable allowing more effective and efficient performance including reduced inventory, expanded data rates, simplified upgrades, reduced costs, and ensured Global Information Grid-compatibility. The Global Information Grid (GIG) requires a transformed cryptographic inventory. The DoD Cryptographic Modernization (CM) Initiative delivers that inventory, ensuring a strong security posture for national security and tactical communications systems by providing transparent cryptographic capabilities consistent with operational imperatives, National Security Agency mandates, and mission environments. The future inventory will provide security devices that ease logistics, support joint interoperability, improve interoperability with allies and coalition partners, enable network-centric and transparent key/equipment management, and allow effective future upgrades. These CM programs enable information dominance by developing and procuring communications security devices that deter and deny known and emerging threats while accommodating significantly increased bandwidths and processing speeds without increasing communication transient and information holding risk. Current CM programs will ensure modernized, secure communications capability to VINSON/ANDVT radios, the Identification Friend Foe (IFF) Mode 5 system, a Remote ReKey system for multiple Homeland Defense and other radar sites, the few remaining, unmodernized-Nuclear Command and Control (NC2) networks, and miniaturized crypto for small unmanned systems. Current programs will replace/upgrade over 30,000 devices out of the Air Force's 245,000+ crypto devices and provided over 100,000 new devices where none were previously available. Other programs are undergoing development under the auspices of this line of this PE in order to meet emerging COMSEC requirements for Key Management Infrastructure compatibility, as well as various enterprise-wide technological upgrades mandated under the National Security Agency assessments and Policy #3-9 Cryptographic Modernization Initiative Requirements for Type 1 Cryptographic Products. Funding for this effort is in PE 0303140F.</p> <p>a. IDENTIFICATION FRIEND OR FOE (IFF) MODE 5 CRYPTO MODERNIZATION: This program developed and is procuring devices to encrypt/decrypt IFF Mode 4 and Mode 5 interrogator and transponder operations. These devices, built to Air Traffic Control Radar Beacon System (ATCRBS), IFF, Mark XIIA, System (AIMS) 04-900 Cryptographic Interface Standard, are integrated into all airborne platforms and ground radar applications to provide critical, immediate tactical aircraft identification data to ground and airborne systems. Procurement of the two primary devices, KIV-77 and KIV-78, concluded in FY15 for the KIV-78 and will conclude in FY18 for KIV-77 (required to outfit most of the USAF fleet) and a remote form factor for certain C2 AF aircraft:</p> <p>(1). KIV-78 DEVICES: The FY18 funding procured the technical support and travel CLINS for the KIV-78s. KIV-78 is a cryptographic device developed by the USAF in conjunction with Navy IFF Mode 5 upgrades for USAF F-16s and U.S. Navy /U.S. Marine Corps F /A-18s.</p> <p>(2) KIV-77 DEVICES: The FY18 funding procures KIV-77s. KIV-77 is a cryptographic device developed by the USAF to integrate into the APX-119 IFF host box used in the majority of USAF aircraft and ground surveillance/control systems.</p> <p>b. REMOTE REKEY (RRK) (CI-33) DEVICES: The RRK modernization program, a part of the AF Key Management Enterprise (KME), will include the current CI-13 capabilities, expand ability to store keying material and rekey other cryptographic devices, and add capability to key/rekey the new Identification Friend or Foe Mode 5 system. RRK uses existing Defense Information Systems Network (DISN) infrastructure communications to distribute key material produced via the Electronic Key Management System (EKMS) or the Key Management Infrastructure (KMI) capabilities, to manage the distribution network, and to configure/status remote End Cryptographic Units (ECUs). FY18 funding procures and installs devices at 36 additional sites.</p> <p>c. VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM): FY18 funds support the VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) program. VACM is an element of the USAF CM Program designed to replace the legacy capability on VINSON/ANDVT secure voice communications on aircraft, ships, and ground fixed and mobile platforms including critical Nuclear Command and Control</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)		<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0207448F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>(NC2) and other Top Secret and Secret networks (Devices: KY-57/58,KY-99/100 and USC-43). The VACM Embedded Project upgrades the Baseband Input/Output (BBIO) module as a permanent modification of the ARC-234.</p> <p>(1) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) COMPONENTS (ARC-234): The VACM Embedded Project was established to modernize cryptographic devices that are integrated within various Vinson/ANDVT radios. The BBIO module performs COMSEC functions for the ARC-234. The Permanent Sustainment Modification of the ARC-234 will retain Embedded Communications Security (COMSEC) capability by upgrading the BBIO module with reprogrammable hardware and modern crypto algorithms.</p> <p>(1a) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) COMPONENTS (ARC-234), Installation: The upgraded BBIOs will be installed/modified into the ARC-234 radios.</p> <p>(2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES: The VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) program is procuring devices. The production line will replace five crypto device types on critical national leadership networks including airborne, ground and mobile platforms.</p> <p>d. Missile Electronic Encryption Device (MEED): The MEED Modification will use FY18 funds to procure the upgraded legacy Missile Entry Control System (MECS) devices used to securely authenticate personnel attempting access to this Nation's ground-based Intercontinental Ballistic Missile (ICBM) facilities. This effort will bring the MEED equipment into compliance with current NSA information assurance (IA) security design guidance.</p> <p>e. Technology Development (TD): Technical Development (TD) conducts concept development and early systems engineering activities to analyze evolving threats and Communications Security (COMSEC) capability gaps across AF mission areas. Develops, plans and executes foundational technology maturation efforts to inform COMSEC requirements, build capability roadmaps and support cost estimates prior to Materiel Development Decision (MDD). Mitigates risk for thousands of AF users affected by algorithm security issues and ensures required security upgrades can be integrated into the AF enterprise. Works with NSA and other services to develop standards that increase security of communication and information products and facilitate efficient crypto and COMSEC enterprise management.</p> <p>FY18 Plans:</p> <p>(1) Distributed Common Ground System (DCGS) Crypto</p> <p>(2) Classified Data at Rest (CDAR) Crypto: Continued procurement of legacy encryption solutions for application to unprotected legacy Air Force platforms.</p> <p>(3) Trusted Sensor (TS) Crypto: Completion of procurement of Trusted Sensor network encryptors with software package enabling intrusion detection on classified and unclassified networks by CVA Hunter weapon system.</p> <p>(4) Integrated Data Denial (IDD) Crypto: No action planned</p> <p>(5) Advanced Crypto Capabilities (ACC): Planned modification activity in support of KG-245A.</p> <p>(6) COMSEC/CCI Tracking tool: Accountability of COMSEC items</p> <p>f. PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY18 program management administration funding supports management with engineering and technical expertise in support of development and procurement activities.</p> <p>g. CLASSIFIED DATA AT REST (CDAR): CDAR will initially support four use cases that have been identified as high priority by CYSS and NSA: Hard Disk (HDD) transfer, Large Manned ISR Platforms, Remotely Piloted Aircraft/Pods/Payloads, and Manned Tactical. Pending results of an Alternative of Analysis, two of the four use cases may be solvable by the procurement of off-the-shelf encryption products.</p> <p>h. TRUSTED SENSOR (see item 3 under TD for description)</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)		<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0207448F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

I. MINI CRYPTO (MC): Developing a Tactical Key Management (TKM) miniaturized cryptographic solution to protect Secret and Below (SaB) Command and Control (C2) and mission data for Size, Weight, and Power (SWaP) constrained platforms which currently have no cryptographic capability and transmit in the clear. MC's TKM solution has a self-generating key which removes the requirement for pre-placed keys and has the ability to add or remove users as tactical situation dictates.

4. AIR FORCE ELECTRONIC KEY MANAGEMENT SYSTEM (AFEKMS): AFEKMS is a part of the AF Key Management Enterprise (KME), a sustainment program that works in concert with the DoD EKMS Program to provide secure, flexible, and timely upgrades to cryptographic key generation, distribution, and management systems. AFEKMS sustains the current Electronic Key Management System and serves as the bridge to the full operational capability (FOC) of DoD KMI. The Air Force continues to purchase AF EKMS physical products required under the COMSEC Material Control System (CMCS). Funding for this effort is in program element 0303140F.

a. TECHNICAL UPDATES: FY18 funding procures hardware and software products necessary to update the Tier 1 Net Key Servers, Tier 3 system data management devices (DMDs); and systems to maintain an audit trail for COMSEC materials.

b. KOV-21 CARDS & REFRESH: F18 funding procures KOV-21 cards, which are the crypto engine for the simple key loader. KOV-21 cards life expectancy is approximately 7-11 years depending on use. Capital Equipment Replacement began in FY10 and will continue until the Air Force Last Mile Load Element is fielded.

c. SIMPLE KEY LOADER (SKL) & REFRESH: FY18 funding procures AN/PYQ-10 SKL units which are controlled cryptographic items that are mission essential to load Crypto key into various platforms. SKLs replace the obsolete AN/CYZ-10 and SKLs that were fielded in prior years (end-of-life due to KOV-21 card). Disruption of the SKL delivery schedule could degrade and/or disrupt secure communications in the battlefield. Capital Equipment Replacement continues incrementally across the FYDP until the Air Force Last Mile Load Element is fielded.

5. AIR FORCE KEY MANAGEMENT INFRASTRUCTURE (AF KMI): The Department of Defense (DoD) has directed the replacement of the legacy Air Force Electronic Key Management System (AFEKMS) portion of the AF Key Management Enterprise (KME) with the DoD Key Management Infrastructure (KMI). The Air Force KMI transition activity procures and deploys the DoD KMI training, equipment and software within the AF to provide mission critical Communications Security support for all AF mission and platforms implementing the core capability for the AF's future KME. The AF KMI transition activity procures KMI connectivity, key management and cryptographic unique/certified products (Tier 2/3) to replace legacy AFEKMS equipment per National Security Agency (NSA) mandates and to field KMI-enabled products that have been under previous years DOD development. Funding for this effort is in program element 0303140F.

a. KMI Hardware (Tier 2): FY18 funding procures: KMI Management Clients (MGCs) that provide the user interface; Advanced Key Processors (AKPs) that provide the cryptographic capability to interact with the DOD KMI; KG-250 High Assurance Internet Protocol Encryptors (HAIPes) that provide secure connectivity to the KMI; KOV-29 Type 1 Tokens that provide secure user identification/authentication to the KMI; and other peripheral KMI equipment requirements.

b. KMI Last Mile Production (Tier 3): FY18 funding procures latest generation Tier 3 devices (SKLs/TKLs) and hardware/software management and support capabilities to satisfy the KMI Last Mile requirement.

PE 0305251F CYBERSPACE OPS FORCES AND FORCE SUPPORT CYBERSPACE VULNERABILITY ASSESSMENT (CVA) TRAINING SUITE: No funding in FY18.

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1	<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment	<b>Item Number / Title [DODIC]:</b> - / OPERATIONAL HQ - CYBER

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	0.000	11.106	0.000	11.106
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	11.106	0.000	11.106
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>0.000</b>	<b>11.106</b>	<b>0.000</b>	<b>11.106</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Hardware - OPERATIONAL HQ - CYBER Cost</b>																		
<b>Recurring Cost</b>																		
1. HARDWARE AND COMMERCIAL OFF THE SHELF SOFTWARE	-	-	-	-	-	-	-	-	-	9.007	1	9.007	-	-	-	9.007	1	9.007
2. PROGRAM MANAGEMENT ADMINISTRATION (PMA)	-	-	-	-	-	-	-	-	-	-	-	1.099	-	-	-	-	-	1.099
3. TRAINING and FIELDING	-	-	-	-	-	0.000	-	-	0.000	-	-	1.000	-	-	0.000	-	-	1.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	11.106	-	-	0.000	-	-	11.106
<i>Subtotal: Hardware - OPERATIONAL HQ - CYBER Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	11.106	-	-	0.000	-	-	11.106
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	0.000	-	-	11.106	-	-	0.000	-	-	11.106

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1	<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment	<b>Item Number / Title [DODIC]:</b> - / AF DEFENSIVE CYBERSPACE OPERATIONS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	13.377	30.678	30.586	0.000	30.586
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	13.377	30.678	30.586	0.000	30.586
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>13.377</b>	<b>30.678</b>	<b>30.586</b>	<b>0.000</b>	<b>30.586</b>

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

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

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - 0208088F COMSEC Cost																		
Recurring Cost																		
Cyberspace Vulnerability Assessment/Hunter	-	-	-	4.349	2	8.698	4.970	4	19.878	2.300	9	20.703	-	-	0.000	2.300	9	20.703
Computer Security Assistance Program (CSAP) Countermeasures	-	-	-	0.461	5	2.305	0.463	5	2.314	0.475	5	2.377	-	-	-	0.475	5	2.377
AFCERT Upgrade Sensors	-	-	-	0.039	2	0.077	0.039	2	0.077	-	-	-	-	-	-	-	-	-
AFCERT Upgrade Switch	-	-	-	0.045	2	0.089	0.045	2	0.089	-	-	-	-	-	-	-	-	-
AFCERT Virtual Private Network (VPN Module)	-	-	-	0.036	2	0.072	0.038	2	0.076	-	-	-	-	-	-	-	-	-
Cyberspace Defense Analysis	-	-	-	1.068	2	2.136	0.081	3	0.244	1.313	3	3.940	-	-	-	1.313	3	3.940
WSCR	-	-	-	-	-	-	0.250	32	8.000	0.238	15	3.566	-	-	-	0.238	15	3.566
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	13.377	-	-	30.678	-	-	30.586	-	-	0.000	-	-	30.586
<i>Subtotal: Hardware - 0208088F COMSEC Cost</i>	-	-	-	-	-	13.377	-	-	30.678	-	-	30.586	-	-	0.000	-	-	30.586
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>13.377</b>	-	-	<b>30.678</b>	-	-	<b>30.586</b>	-	-	<b>0.000</b>	-	-	<b>30.586</b>



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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1	<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment	<b>Item Number / Title [DODIC]:</b> - / Public Key Infrastructure (PKI)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	35,060	67,240	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	2.442	4.005	4.120	0.000	4.120
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	2.442	4.005	4.120	0.000	4.120
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>2.442</b>	<b>4.005</b>	<b>4.120</b>	<b>0.000</b>	<b>4.120</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - 0303135F COMSEC Cost																		
Recurring Cost																		
1. EVOLUTIONARY PKI END USER EQUIPMENT	-	-	-	0.000	35,060	1.753	0.000	67,240	3.334	0.000	67,880	3.426	-	-	0.000	0.000	67,880	3.426
2. AIR FORCE DIRECTORY SERVICES	-	-	-	0.138	5	0.689	0.134	5	0.671	0.139	5	0.694	-	-	-	0.139	5	0.694
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.442	-	-	4.005	-	-	4.120	-	-	0.000	-	-	4.120
<i>Subtotal: Hardware - 0303135F COMSEC Cost</i>	-	-	-	-	-	2.442	-	-	4.005	-	-	4.120	-	-	0.000	-	-	4.120
<b>Gross/Weapon System Cost</b>	-	-	-	<b>0.000</b>	<b>35,060</b>	<b>2.442</b>	<b>0.000</b>	<b>67,240</b>	<b>4.005</b>	-	-	<b>4.120</b>	-	-	<b>0.000</b>	-	-	<b>4.120</b>

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1	<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment	<b>Item Number / Title [DODIC]:</b> - / Information Systems Security Program

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	117.551	45.676	69.188	0.000	69.188
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	117.551	45.676	69.188	0.000	69.188
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>117.551</b>	<b>45.676</b>	<b>69.188</b>	<b>0.000</b>	<b>69.188</b>

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

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

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - 1. SPACE COMSEC (PE 0303140F) Cost</b>																		
Recurring Cost																		
a. PRODUCTS	-	-	-	0.017	1,192	20.645	-	-	0.000	-	-	-	-	-	-	-	-	-
b. LOGISTICS	-	-	-	2.911	7	20.377	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	41.022	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - 1. SPACE COMSEC (PE 0303140F) Cost</i>	-	-	-	-	-	41.022	-	-	0.000	-	-	-	-	-	-	-	-	-
<b>Hardware - 2. AIR and GROUND COMSEC (PE 0303140F) Cost</b>																		
Recurring Cost																		
a. IN-LINE NETWORK ENCRYPTORS	-	-	-	0.029	627	18.475	0.016	429	6.894	0.016	503	8.089	-	-	-	0.016	503	8.089
b. LINK ENCRYPTION FAMILY	-	-	-	-	-	-	-	-	-	0.009	444	3.955	-	-	-	0.009	444	3.955
c. AIR AND GROUND CONSOLIDATED	-	-	-	0.002	2,512	5.990	0.003	565	1.470	0.003	1,651	4.298	-	-	-	0.003	1,651	4.298
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	24.465	-	-	8.364	-	-	16.342	-	-	-	-	-	16.342
<i>Subtotal: Hardware - 2. AIR and GROUND COMSEC (PE 0303140F) Cost</i>	-	-	-	-	-	24.465	-	-	8.364	-	-	16.342	-	-	-	-	-	16.342
<b>Hardware - 3. CRYPTOGRAPHIC MODERNIZATION (PE 0303140F) Cost</b>																		
Recurring Cost																		
a (1). KIV-78	-	-	-	0.009	75	0.642	-	-	0.495	0.010	45	0.433	-	-	-	0.010	45	0.433

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>													<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1							<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment						<b>Item Number / Title [DODIC]:</b> - / Information Systems Security Program					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
b. REMOTE REKEY (RRK) (CI-33) DEVICES	-	-	-	-	-	1.923	-	-	0.815	0.412	36	14.840	-	-	-	0.412	36	14.840
c. (1) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) COMPONENTS (ARC-234)	-	-	-	0.025	201	5.014	0.020	106	2.100	0.021	12	0.250	-	-	-	0.021	12	0.250
c. (1a) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) COMPONENTS (ARC-234) INSTALLATION	-	-	-	0.012	101	1.184	0.020	384	7.694	-	-	-	-	-	-	-	-	-
c. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES	-	-	-	0.011	1,823	20.069	0.011	557	6.133	0.012	1,216	14.600	-	-	-	0.012	1,216	14.600
d. MISSILE ELECTRONIC ENCRYPTION DEVICES (MEED)	-	-	-	-	-	0.000	-	-	-	0.011	320	3.502	-	-	-	0.011	320	3.502
e. PROGRAM MANAGEMENT (PMA)	-	-	-	-	-	7.437	-	-	4.360	-	-	3.389	-	-	-	-	-	3.389
f. DISTRIBUTED GROUND COMM SYSTEM (DGCS)	-	-	-	-	-	4.645	-	-	-	-	-	-	-	-	-	-	-	-
g. CLASSIFIED DATA AT REST (CDAR)	-	-	-	-	-	0.000	-	-	-	-	-	0.000	-	-	-	-	-	0.000
h. TRUSTED SENSORS	-	-	-	0.020	74	1.500	-	-	-	-	-	-	-	-	-	-	-	-
i. MINI CRYPTO	-	-	-	-	-	-	-	-	-	0.003	1,191	3.050	-	-	-	0.003	1,191	3.050
a (2) KIV-77	-	-	-	0.041	5	0.207	0.062	17	1.058	0.061	17	1.037	-	-	-	0.061	17	1.037
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	42.621	-	-	22.655	-	-	41.101	-	-	-	-	-	41.101
<i>Subtotal: Hardware - 3. CRYPTOGRAPHIC MODERNIZATION (PE 0303140F) Cost</i>	-	-	-	-	-	42.621	-	-	22.655	-	-	41.101	-	-	-	-	-	41.101
<i>Hardware - 4. AF EKMS (PE 0303140F) Cost</i>																		
<i>Recurring Cost</i>																		

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>													<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1						<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment						<b>Item Number / Title [DODIC]:</b> - / Information Systems Security Program						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
a. TECHNICAL UPDATES	-	-	-	-	-	1.282	-	-	1.049	-	-	0.714	-	-	-	-	-	0.714
b. SIMPLE KEY LOADER (SKL) and REFRESH	-	-	-	0.003	1,236	3.709	0.003	3,153	9.460	0.003	784	2.352	-	-	-	0.003	784	2.352
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	4.991	-	-	10.509	-	-	3.066	-	-	-	-	-	3.066
<i>Subtotal: Hardware - 4. AF EKMS (PE 0303140F) Cost</i>	-	-	-	-	-	4.991	-	-	10.509	-	-	3.066	-	-	-	-	-	3.066
<i>Hardware - 5. AF KMI (PE 0303140F) Cost</i>																		
<i>Recurring Cost</i>																		
a. KMI HARDWARE	-	-	-	0.022	202	4.452	0.032	130	4.148	0.006	65	0.360	-	-	0.000	0.006	65	0.360
b. KMI Last Mile Production	-	-	-	-	-	-	-	-	-	0.003	2,773	8.319	-	-	-	0.003	2,773	8.319
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	4.452	-	-	4.148	-	-	8.679	-	-	0.000	-	-	8.679
<i>Subtotal: Hardware - 5. AF KMI (PE 0303140F) Cost</i>	-	-	-	-	-	4.452	-	-	4.148	-	-	8.679	-	-	0.000	-	-	8.679
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	117.551	-	-	45.676	-	-	69.188	-	-	0.000	-	-	69.188

**Remarks:**  
COMSEC Equipment is procured as a centrally managed item using 3080.

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 1	<b>P-1 Line Item Number / Title:</b> 831010 / Comsec Equipment	<b>Item Number / Title [DODIC]:</b> - / Cyberspace Operations Forces and Force Support

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	3.628	0.000	0.000	0.000	0.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	3.628	0.000	0.000	0.000	0.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>3.628</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - 0305251F Cost																		
Recurring Cost																		
Cyber Vulnerability Assessment/Hunter (CVA/H) Training System	-	-	-	3.628	1	3.628	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	3.628	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - 0305251F Cost</i>	-	-	-	-	-	3.628	-	-	0.000	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	3.628	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec) **P-1 Line Item Number / Title:** 831970 / Modifications (COMSEC)

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

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

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.677	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	0.677
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.677	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	0.677
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.677</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.677</b>

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

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

**Description:**

The Communications Security (COMSEC) modification activity ensures the integration, installation, and sustainment of cryptographic equipment. This activity is a critical component in providing robust, secure global communications, enabling information superiority. It provides the warfighter with the security needed to protect the flow and exchange of operational decision-making information through the retrofit and modification of selected COMSEC equipment. These modification efforts ensure legacy equipment can meet current COMSEC operational environment requirements. Funding for this effort is in program element (PE) 0303140F.

Modification 3080 funds were realigned to 3021 Space Procurement starting in FY17.

**Justification:**

FY17 and FY18 funding moved to appropriation 3021, Space Procurement. FY16 funding provided replacement of critical components to maintain mission data life cycle requirements. As the obsolescence of parts occurs in the sustainment of the products, modifications must be implemented to keep the products operational for satellite programs. Funds are used to update both cryptographic product end items and logistics lifecycle support elements.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs

**P-1 Line Item Number / Title:**  
832050 / International Intel Tech & Architectures

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0305600F **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> )	-	0.000	0.000	22.335	8.873	31.208	15.139	15.398	15.680	15.967	-	93.392
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	22.335	8.873	31.208	15.139	15.398	15.680	15.967	-	93.392
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>0.000</b>	<b>22.335</b>	<b>8.873</b>	<b>31.208</b>	<b>15.139</b>	<b>15.398</b>	<b>15.680</b>	<b>15.967</b>	-	<b>93.392</b>

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

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

**Description:**

International Intelligence Technology and Architectures oversees, manages, and provides the United States (US) component of the multi-national Battlefield Information Collection and Exploitation System (US BICES) with a collaborative environment and intelligence sharing enterprise required for processing and disseminating critical intelligence information between and among US, North Atlantic Treaty Organization (NATO), allied and coalition forces. The US BICES program procures and maintains a standing intelligence information sharing capability across Department of Defense (DoD), Combat Support Agencies, and multiple Combatant Commands (CCMD) for the Under Secretary of Defense, Intelligence (USD (I)). At the request of USD (I), US BICES is extended beyond U.S. European Command (USEUCOM) into all CCMDs and is known as US BICES Extended (US BICES-X). US BICES provides an "enduring" US and Coalition interoperable intelligence sharing multi-level secure technical architecture utilizing releasable elements of the Defense Intelligence Information Enterprise (DI2E) framework and functions to support the full spectrum of intelligence operations and dissemination throughout the DoD community. Also, it enables instantiation of US BICES/BICES-X as the intelligence contribution to the Mission Partner Environment (MPE).

This is not a new start. The funding was previously justified in another P-1 Line.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs

**P-1 Line Item Number / Title:**  
832050 / International Intel Tech & Architectures

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0305600F **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-5	International Intel Tech & Architectures	P-5a	B		- / -	- / 0.000	- / 0.000	- / 22.335	- / 8.873	- / 31.208
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 22.335</b>	<b>- / 8.873</b>	<b>- / 31.208</b>

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

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

**Justification:**  
In response to CCMD requests, provides funding for extended use of US BICES-capabilities in support of USD (I) global intelligence sharing requirements. Provides Computer Equipment Replacement Program (CERP) for the US BICES-X Enterprise. Procures hardware and software to support the continued build out and expansion of the US BICES-X/SOF BICES coalition information sharing capabilities to US Combatant Commanders and SOF units in support of on-going operations utilizing US BICES-X capabilities world-wide. Supports J2 (Joint Intelligence) network requirements to exchange intelligence information with bi-lateral, multi-lateral, and NATO partners. Will deliver procedures, workstations, switches, servers, cross-domain solutions, satellite bandwidth, microwave communications, video teleconference suites, network equipment, storage and backup, encryption equipment, software licenses, infrastructure, deployable suites, Trusted Network Environment (TNE) equipment and software communications. Variations in quantity and unit price reflect planned periodic refresh of equipment and software over the lifecycle of the system.

Other Procurement funding will:

- Provide and support extension of the US BICES multilateral, and BICES-like bilateral intelligence information sharing capabilities within each of the Unified Commands via expanded terrestrial and satellite communications, information technology systems, integrated wide area and meshed networking, deployable containers/elements, and advanced Joint Intelligence Operations Center (JIOC)-IT/Distributed Common Ground/Surface Systems (DCGS) releasable analytical applications.
- Procure the hardware and software needed to establish US BICES-X capabilities as a core infrastructure and enterprise for the intelligence component of the DoD Mission Partner Environment (MPE).
- Continue support to the (US as framework nation) US/Coalition Special Operations Forces (SOF) supporting NATO and worldwide intelligence needs for the Global Pursuit mission and the Intelligence Fusion Center at the Joint Analysis Center, United Kingdom (UK), in support of NATO.
- Procure work stations, enterprise hardware and software, security accreditation, and network connections supporting strategic, operational and forward deployed warfighting forces in multiple theaters.
- Provide for the Computer Equipment Replacement Program (CERP) upgrades to the US BICES-X Enterprise. These upgrades will provide cross domain solutions to support the reduction of barriers to information sharing with coalition partners identified in the Information Sharing Integrated Product Team Foreign Disclosure Report dated March 2010. The upgrades also consolidate and federate coalition support architectures across CCMDs to take advantage of US BICES-X based technologies to increase efficiencies.
- Provide initial capabilities for the establishment of a coalition baseline for the Special Operations Command Intelligence sharing capabilities.

Variations in quantity and unit price reflect planned refresh of equipment and software over the lifecycle of the system.

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>						<b>Date: May 2017</b>		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2			<b>P-1 Line Item Number / Title:</b> 832050 / International Intel Tech & Architectures			<b>Item Number / Title [DODIC]:</b> - / International Intel Tech & Architectures		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			-	0.000	0.000	22.335	8.873	31.208
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			-	0.000	0.000	22.335	8.873	31.208
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			-	<b>0.000</b>	<b>0.000</b>	<b>22.335</b>	<b>8.873</b>	<b>31.208</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)			-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - International Intel Tech Cost</b>																		
<b>Recurring Cost</b>																		
Workstation Suites	-	-	-	-	-	0.000	-	-	0.000	2,000.00	406	0.812	2,000.00	60	0.120	2,000.00	466	0.932
Server Suites	-	-	-	-	-	0.000	-	-	0.000	15,000.00	85	1.275	15,000.00	20	0.300	15,000.00	105	1.575
Laptop Suites	-	-	-	-	-	0.000	-	-	0.000	2,000.00	23	0.046	-	-	-	2,000.00	23	0.046
Printers	-	-	-	-	-	0.000	-	-	0.000	-	-	0.030	-	-	0.011	-	-	0.041
Storage and Backup Suites	-	-	-	-	-	0.000	-	-	0.000	24,000.00	22	0.528	24,000.00	1	0.024	24,000.00	23	0.552
Network Equipment	-	-	-	-	-	0.000	-	-	0.000	561,000.00	6	3.366	561,000.00	7	3.927	561,000.00	13	7.293
Video Teleconference Suite	-	-	-	-	-	0.000	-	-	0.000	83,000.00	3	0.249	83,000.00	22	1.826	83,000.00	25	2.075
Encryption Equipment	-	-	-	-	-	0.000	-	-	0.000	15,000.00	38	0.570	15,000.00	71	1.065	15,000.00	109	1.635
Infrastructure	-	-	-	-	-	0.000	-	-	0.000	56,000.00	25	1.400	56,000.00	22	1.232	56,000.00	47	2.632
Deployable System Monitors 32 inch LCD (373 Base, 80 OCO)	-	-	-	-	-	0.000	-	-	0.000	-	-	0.091	-	-	0.020	-	-	0.111
<b>Subtotal: Recurring Cost</b>	-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>8.367</b>	-	-	<b>8.525</b>	-	-	<b>16.892</b>
<b>Non Recurring Cost</b>																		
Fly-Away Deployable BICES Mobile Units with Video	-	-	-	-	-	0.000	-	-	0.000	-	-	-	42,000.00	5	0.210	42,000.00	5	0.210
<b>Subtotal: Non Recurring Cost</b>	-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.210</b>	-	-	<b>0.210</b>
<b>Subtotal: Hardware - International Intel Tech Cost</b>	-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>8.367</b>	-	-	<b>8.735</b>	-	-	<b>17.102</b>

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>													<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2						<b>P-1 Line Item Number / Title:</b> 832050 / International Intel Tech & Architectures						<b>Item Number / Title [DODIC]:</b> - / International Intel Tech & Architectures						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B										<b>MDAP/MAIS Code:</b>								

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Software - International Intel Tech Cost																		
Recurring Cost																		
Software Licenses <sup>(†)</sup>	-	-	-	-	-	0.000	-	-	0.000	776,000.00	18	13.968	-	-	-	776,000.00	18	13.968
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	13.968	-	-	-	-	-	13.968
<i>Subtotal: Software - International Intel Tech Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	13.968	-	-	-	-	-	13.968
Support - International Intel Tech Cost																		
US BICES Mobility	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.044	-	-	0.044
Program Support	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.094	-	-	0.094
<i>Subtotal: Support - International Intel Tech Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.138	-	-	0.138
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	0.000	-	-	22.335	-	-	8.873	-	-	31.208

**Remarks:**

Automated P-Doc system rounds unit cost and does not allow unit costs below \$1,000.

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832050 / International Intel Tech & Architectures	<b>Item Number / Title [DODIC]:</b> - / International Intel Tech & Architectures
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Software Licenses		2018	GDIT / Springfield/VA	SS / IDIQ	AA-CDM	Jan 2018	Apr 2018	18	776,000.00	Y		

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
Equip / BSA 2: Intelligence Programs

**P-1 Line Item Number / Title:**  
832060 / Intelligence Training Equipment

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

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

Resource Summary	Prior Years	FY 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> )	-	4.041	6.982	5.892	0.000	5.892	5.529	5.627	5.730	5.831	-	39.632
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	4.041	6.982	5.892	0.000	5.892	5.529	5.627	5.730	5.831	-	39.632
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>4.041</b>	<b>6.982</b>	<b>5.892</b>	<b>0.000</b>	<b>5.892</b>	<b>5.529</b>	<b>5.627</b>	<b>5.730</b>	<b>5.831</b>	-	<b>39.632</b>

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

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

**Description:**

The Intelligence Training Equipment P-1 line procures equipment for use in initial and advanced training in the General Intelligence and Cryptologic and Signals Intelligence related career fields. The equipment supports training for intelligence officers, geospatial analysts, targeteers, operations analysts, linguists, network analysts, and all communications (except communications security) and electronic intelligence analysts. The systems support intelligence, surveillance, and reconnaissance applications. The major focus of the systems is to provide the sole source for functional training on the newest generation of intelligence systems with an emphasis on computer-based training systems through modeling and simulation. This equipment is critical in preparing military intelligence personnel to support warfighting commanders and the National Intelligence Program (NIP). The equipment supports enterprise-wide intelligence training for Air Force (AF), Department of Defense (DoD), Department of Homeland Security (DHS), and Joint/Coalition Partner personnel at Goodfellow Air Force Base (GAFB), Texas.

PE 0804733F GENERAL INTELLIGENCE SKILL TRAINING (GIST)

GOODFELLOW INTELLIGENCE TRAINING ARCHITECTURE (GITA) UPGRADE: Continues to incorporate new equipment to support the development of the enterprise architecture, consolidating multiple networks and systems into a single integrated GITA.

The FY18 funding request includes an increase to account for additional Air Force requirements.

Funding for this exhibit contained in PE 0804733F.

**Justification:**

PE 0804733F GENERAL INTELLIGENCE SKILL TRAINING

GOODFELLOW INTELLIGENCE TRAINING ARCHITECTURE (GITA) FY18 funding will be used on the GITA infrastructure to modernize/upgrade the training network backbone and delivery systems supporting over 7600 students annually. Upgrades ensure that GITA meets/exceeds the latest in cyber security requirements at each security level. GITA provides lifecycle support of the hardware and software required to deliver training designed to meet operational customer requirements. GITA encompasses the following: student workstations; network; servers; storage solutions; thin client technology; scenario-based modeling and simulation models; courseware development software; delivery servers; application hardware; and networking equipment. GITA aligns technologies with advanced teaching techniques; increases system capabilities to support ever-evolving operational intelligence tools; and addresses uncertainty in continued sustainment capabilities to reduce failure rates and outages.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs		<b>P-1 Line Item Number / Title:</b> 832060 / Intelligence Training Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		



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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs

**P-1 Line Item Number / Title:**  
832070 / Intelligence Comm Equipment

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0305192F, 0305221F, 1203179F **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> )	28.093	29.272	30.504	34.072	2.000	36.072	31.841 <sup>(a)</sup>	29.777 <sup>(b)</sup>	30.819 <sup>(c)</sup>	30.846 <sup>(d)</sup>	-	247.224 <sup>(e)</sup>
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	28.093	29.272	30.504	34.072	2.000	36.072	31.841	29.777	30.819	30.846	-	247.224
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>28.093</b>	<b>29.272</b>	<b>30.504</b>	<b>34.072</b>	<b>2.000</b>	<b>36.072</b>	<b>31.841</b>	<b>29.777</b>	<b>30.819</b>	<b>30.846</b>	-	<b>247.224</b>

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

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

**Description:**

PE 0207431F Combat Air Intelligence System Activities - P-40A

Enhanced GEOSPATIAL PRODUCT LIBRARY (eGPL): eGPL provides all AF units access to digital GEOINT and targeting data products in support of targeting, intelligence and mission planning processes, including support to units deploying to South West Asia and North Africa. It provides the sole resource to store and immediately retrieve large digital files and mission essential GEOINT data required to conduct AF mission sets. This storage includes tape drives to ensure data survivability and rapid back-up/restoration 20 times faster than network technology, freeing units critical time to support mission tasks.

UNIT LEVEL INTELLIGENCE (ULI) SYSTEMS: ULI fields the Personal Computer- Integrated Imagery and Intelligence (PC-I3/T) and Targeting Application Workstation (TAW) systems which are used by intelligence analysts to produce Targeting and Mission Planning materials.

INFORMATION STORAGE (iStoRE): iStoRE replaces NGA's legacy Image Product Library (IPL), which NGA ceases funding upon iStoRE release. It provides state-of-the-art technology to rapidly access, store and disseminate intelligence to/from United States Imagery and Geospatial System (USIGS) library system, giving imagery analysts, cartographers, intelligence and operations personnel direct access to imagery products and associated data to support their respective mission needs.

GLOBAL COMMAND AND CONTROL SYSTEM -INTEGRATED IMAGERY AND INTELLIGENCE (GCCS-I3): GCCS-I3 provides the central targeting data infrastructure for the AFTC's distributed operations in support of worldwide targeting requirements from air component commanders and their subordinate units. It fields the capability to store/expose virtual electronic target folders through Joint Targeting Toolbox (JTT), order of battle data through Analyst Workshop (AWS) and access to tailored data sets to users via widget technology supported through the Ozone Widget Framework (OWF). It provides the Joint Force Air Component Commander (JFACC) and his Air Operations Center (AOC) staff machine to machine access to targeting and intelligence data support the planning, tasking, execution and assessment of air operations. It provides unit operation access to authoritative data in support of mission planning and tactical operations, to include locally collected tactical imagery, live video streams, and other intelligence with national and theater-produced intelligence.

JOINT TARGETING TOOLBOX (JTT): Provides JTT servers for interfacing programs to test against. Servers are needed on Unclassified and Secret environments and will require software licenses to support operations.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs		<b>P-1 Line Item Number / Title:</b> 832070 / Intelligence Comm Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0305192F, 0305221F, 1203179F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>INFORMATION FOR OPERATIONAL AND TACTICAL ANALYSIS (IOTA): Provides web-based information management in the form of automated ingest and analysis of combat intelligence, surveillance, and reconnaissance (ISR) reports. The two ISR-related components of IOTA are the mission report (MISREP) analysis tool (MAT) and ISR Assessment Tool (IAT).</p> <p>INTELLIGENCE AUTOMATED DATA PROCESSING EQUIPMENT (IADPE): Provides capital equipment replacement program funds for USAFE data processing systems and communications network. Provides unit operation access to authoritative data in support of mission planning and tactical operations, to include locally collected tactical imagery, live video streams, and other intelligence with national and theater-produced intelligence.</p> <p>Targeting and Geospatial-Intelligence (T&amp;G) Program Management Office (PMO) CENTER OF EXCELLENCE (COE): Provides the infrastructure that enables the agile development, sustainment, and fielding of new T&amp;G capabilities, and ensures that the technical baseline is established and controlled by the Government. Sustainment includes help desk support, documentation, information assurance, STIGs/TCNOs, software patches and fixes. Fielding supports ULI, GPL, IOTA, and any new T&amp;G capability not fielded via other paths.</p> <p>PE 0305146F Defense Joint Counterintelligence Activities - P-40A Supports both Technical Surveillance and Technical Surveillance Countermeasures (TSCM) to counterintelligence operations conducted by the Air Force Office of Special Investigations for AF and DoD entities to detect and deter covert activities conducted by Foreign Intelligence Services seeking to compromise classified or sensitive information. The technical equipment required for these investigations is unique and complex and is a part of the formally designated USAF TSCM weapons system.</p> <p>PE 0305179F Integrated Broadcast Service (IBS) has changed to a new PE 1203179F in FY18 - P-40A INTEGRATED BROADCAST SERVICE (IBS): The IBS is a multi-sensor, multisource system of systems for the dissemination of integrated threat warning and blue force tracking information. IBS provides intelligence producers and information sources the means to analyze and disseminate strategic, operational, and tactical intelligence and warning information directly to the warfighter. The IBS operational baseline represents the migration, integration, and consolidation of existing tactical data dissemination into a future common architecture message format.</p> <p>PE 0307577F Intelligence Mission Data (IMD) - P-40A Funding will enable procurement of equipment for Advanced NCTR Collect and storage systems supporting Operational Reconnaissance data automation.</p> <p>PE 1203400F Space Superiority Intelligence (SSI) - P-40A This is a new P.E. and a new start in FY18. This PE executes requirements for SSI. Funds may be used for other AFNet requirements if required. Funds are required to re-capitalize current fielded systems that have operated for 4 years. Processing equipment runs 24/7 to support high utilization rates. Antennas and supporting equipment are fully exposed to the elements, experience a great deal of physical movement, and are reaching end of life expectancy.</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:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs **P-1 Line Item Number / Title:** 832070 / Intelligence Comm Equipment

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0305192F, 0305221F, 1203179F **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	Combat Air Intelligence System Activities				- / -	- / 3.894	- / 6.242	- / 6.549	- / 0.000	- / 6.549
P-40a	Defense Joint Counterintelligence Activities				- / -	- / 0.460	- / 0.711	- / 1.181	- / 0.000	- / 1.181
P-40a	Integrated Broadcast Service (IBS)				- / -	- / 1.905	- / 4.003	- / 4.000	- / -	- / 4.000
P-40a	Integrated Broadcast Service (IBS)				- / 21.203	- / 13.106	- / 12.449	- / 13.283	- / 0.000	- / 13.283
P-40a	Military Intelligence Program (MIP) Activities				- / 3.920	- / 2.900	- / 4.516	- / 4.434	- / 0.000	- / 4.434
P-40a	Network-Centric Collaborative Targeting				- / 2.970	- / 3.517	- / 2.583	- / 3.312	- / 0.000	- / 3.312
P-40a	Intelligence Mission Data (IMD)				- / 0.000	- / 0.000	- / 0.000	- / 1.313	- / 0.000	- / 1.313
P-40a	Space Superiority Intelligence				- / -	- / 3.490	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	Space Superiority Intelligence				- / -	- / -	- / -	- / -	- / 2.000	- / 2.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 28.093</b>	<b>- / 29.272</b>	<b>- / 30.504</b>	<b>- / 34.072</b>	<b>- / 2.000</b>	<b>- / 36.072</b>

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

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

**Justification:**

This program, Intelligence Comm Equipment P-40A Item Intelligence Mission Data (IMD) Advanced NCTR Collect, is a new start.  
 This program, Intelligence Comm Equipment P-40A Item New Item, is a new start.

In PE 0307577F, In PE 0307577F, PE 0207431F Combat Air Intelligence System Activities - P-40A  
 ENHANCED GEOSPATIAL PRODUCT LIBRARY (EGPL): Funding provides for the capital equipment replacement of EGPL servers, drives, and associated equipment to ensure current, dependable data repository for intelligence threat assessment and combat mission planning support at over 260 units worldwide.

UNIT LEVEL INTELLIGENCE (ULI) SYSTEMS: Funding provides for the capital equipment replacement of ULI systems providing crucial capabilities to the Warfighter to include Intelligence Preparation of the Operational Environment (IPOE), data gathering and compilation, support to mission execution, intelligence reporting, targeting, weapon systems video processing, and post-mission assessment support at over 327 units worldwide

INFORMATION STORAGE (iStoRE): Funding provides for the capital equipment replacement of iStoRE systems to provide imagery analysts, cartographers, intelligence and operations personnel direct access to imagery products and associated data to support their respective mission needs at wing and below units, to include the Air Force Targeting Center.

GLOBAL COMMAND AND CONTROL SYSTEM -INTEGRATED IMAGERY AND INTELLIGENCE (GCCS-I3): Funding provides for the capital equipment replacement of GCCS-I3 servers and associated equipment to provide a centralized targeting data infrastructure throughout the Air Force Targeting Enterprise (AFTE).

JOINT TARGETING TOOLBOX (JTT): Funding will be used to provide an environment for interfacing programs to test against JTT. The JTT program interfaces with many other programs (AFATDS/JEMS/TOMAWK) that require an environment that they can test against. The NG effort had previously provided both unclassified/classified servers that interfacing programs could test against, but they no longer exist with the contract transfer to BAE. If the servers are not procured the fielding path for JTT releases has an increased risk to slip due to interface issues.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs		<b>P-1 Line Item Number / Title:</b> 832070 / Intelligence Comm Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0305192F, 0305221F, 1203179F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>INFORMATION FOR OPERATIONAL AND TACTICAL ANALYSIS (IOTA): Funding provided installation costs in support of fielding into the Air Operations Centers (AOC).</p> <p>INTELLIGENCE AUTOMATED DATA PROCESSING EQUIPMENT (IADPE): Funding will be used to procure servers, storage devices, associated hardware upgrades and installation costs.</p> <p>Targeting and Geospatial Intelligence (T&amp;G) PMO CENTER OF EXCELLENCE (COE): The Center of Excellence is critical to the Unit Level Intelligence mission as the center performs all system integration work, conducts functional testing, runs cyber security scans, pushes necessary information assurance patches to the user community, provides help desk support, and fields the hardware and software components needed to successfully employ the Targeting Applications Workstation and the Personal Computer - Integrated Imagery and Intelligence/Targeting systems.</p> <p>PE 0305146F Defense Joint Counterintelligence Activities - P-40A FY18 funding procures the periodic refresh of equipment to provide state of the art capabilities to detect and neutralize criminal activities targeted against sensitive and classified AF and DoD information and activities.</p> <p>PE 0305179F Integrated Broadcast Service (IBS) - P-40A FY18 funding for IBS procurement efforts are focused in the following areas:</p> <p>(1) CIB UPLINK SITE (CUS) TACTICAL INFORMATION PROCESSOR AND ONLINE FUSION FACILITY (TIPOFF): TIPOFF serves as the control system for the CIB Uplink Site and interface to the IBS Network Services (IBS-NS). Each major release of the software incorporates approved requirements as necessitated by mission changes, system interoperability, and system security. The new release supports migration to Common Interactive Broadcast Uplink Sites.</p> <p>(2) COMMON INTERACTIVE BROADCAST PLANNING TOOL (CIB-PT): The CIB-PT provides the COCOM Planners an integrated software/hardware mechanism to allocate space-based communications resources to theater and national producers, specifically to reliably optimize the timeliness of scarce bandwidth allocation of extremely time-critical messages. Each major release of the software/hardware incorporates updated producer prioritization, bandwidth allocation, mission monitoring and interfaces to the STRATCOM systems as necessitated by mission changes, system interoperability, and system security compliance to achieve threshold requirements.</p> <p>(3) COMMON MESSAGE FORMAT PARSER LIBRARY (CMFPL): The CMF repository is required for the automatic exchange of data among processing, exploitation, and dissemination (PED) systems. This effort procures the infrastructure for dynamic software library updates for multiple operating systems essential to broadcast operation.</p> <p>(4) IBS V&amp;V Environment: Procures simulation and stimulation tools to certify and verify mission equipment for operational use. Included is the MULTI-AREA REMOTE SIMULATOR (MARS) a component of the IBS verification and validation process used to emulate multiple systems messaging under operational conditions and the UNIVERSAL CIB TEST SET (UCTS) a component that emulates the UHF SATCOM environment.</p> <p>(5) TERMINAL, DATALINK &amp; ENTERPRISE MITIGATION: Funds direct mission support activities such as verification &amp; validation documentation; uplink and receive and transmit terminal upgrade, enhancements and spares; mitigation; CMF product support; Joint Tactical Data Link (JTDL/IBS) support; net-centric support; product documentation; studies and analyses; IBS Web Support and contractor systems engineering activities.</p> <p>(6) IBS-NS: Scaling capability is required for messaging under operational use. Funds approved modernization of Global IBS Servers (GINS), and Theater Interface Nodes (TINS), technology refreshment and integration as necessitated by mission changes, system interoperability, and system security.</p> <p>PE 0305912F Military Intelligence (MIP) Activities - P-40A FY18 funding will enable completion of AF JWICS enterprise disaster recovery capabilities for core services at the four Enterprise Service Centers. Funds will be used to conduct site surveys, procure servers, storage devices, associated software / hardware upgrades, and installation costs.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs		<b>P-1 Line Item Number / Title:</b> 832070 / Intelligence Comm Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0305192F, 0305221F, 1203179F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>PE 0305221F Network Centric Collaborative Targeting - P-40A  FY18 funding is for NCCT hardware refreshes at ground stations in support of a new software baseline roll out and user requested upgrades. NCCT core technology investments include, but are not limited to, operational interfaces, network controllers, fusion engines, and data guards for multi-level security hardware and software items based on operator specified rule-sets. NCCT core technology also supports Air Force and Joint experiments, demonstrations and exercises as necessary.</p> <p>PE 0307577F Intelligence Mission Data (IMD) - P-40A - is a new start in FY18.  IMD Advanced NCTR Collect: (\$813K) Funding will deliver 2 items.</p> <p>Operational Reconnaissance Data Automation: (\$500K) Funding will deliver 2x Servers, 1x Storage Area Network, 2x Fiber Channel switches, 1 x KVM, 2x Rack, 2x Management switches, server management and database software.</p> <p>PE 1203400F - Space Superiority Intelligence (SSI) - P-40A  In FY18, this is a new P.E. and a new start. FY18 funding requests \$2M in Overseas Contingency Operations (OCO) funding to support the warfighter. This PE executes requirements for SSI. Funds may be used for other AFNet requirements if required.</p> <p>ARC STORM: Uses commercially available technology and systems to provide the rapid geo-location of commercial satellite communication emitter locations, utilizing unmanned, remotely operated systems located in key area throughout the world.</p> <p>Funds are required to re-capitalize current fielded systems that have operated for 4 years. Processing equipment runs 24/7 to support high utilization rates. Antennas and supporting equipment are fully exposed to the elements, experience a great deal of physical movement, and are reaching end of life expectancy.</p> <p>ARC STORM systems will become inoperable without equipment recapitalization; resulting in loss of geo-location collection. Funds will allow immediate re-capitalization of two fielded systems plus an additional spare, allowing for continued support to operations.</p> <p><b>Efforts with funding starting in FY 2019 through FY 2022 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:</b></p> <ul style="list-style-type: none"> <li>(a) FY 2019 Cost Delta: 31.841 million</li> <li>(b) FY 2020 Cost Delta: 29.777 million</li> <li>(c) FY 2021 Cost Delta: 30.819 million</li> <li>(d) FY 2022 Cost Delta: 30.846 million</li> <li>(e) FY Total Cost Delta: 247.224 million</li> </ul>		

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 2 **P-1 Line Item Number / Title:** 832070 / Intelligence Comm Equipment **Aggregated Items Title:** Combat Air Intelligence System Activities

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
CAIS PE 0207431F	A		-	-	-	-	-	0.000	-	-	1.158	-	-	0.517	-	-	-	-	-	0.517
ULI	A		-	-	-	-	-	1.368	-	-	0.408	-	-	2.527	-	-	-	-	-	2.527
GPL	A		-	-	-	-	-	1.080	-	-	1.845	-	-	2.337	-	-	-	-	-	2.337
IStore	A		-	-	-	-	-	0.520	-	-	0.000	-	-	-	-	-	0.000	-	-	0.000
GCCS-I3	A		-	-	-	-	-	0.312	-	-	0.000	-	-	0.345	-	-	-	-	-	0.345
IOTA	A		-	-	-	-	-	0.314	-	-	0.000	-	-	-	-	-	-	-	-	-
COE T&G Integrator	A		-	-	-	-	-	0.300	-	-	0.000	-	-	-	-	-	-	-	-	-
JTT	A		-	-	-	-	-	0.000	-	-	2.831	-	-	0.823	-	-	-	-	-	0.823
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>3.894</b>	-	-	<b>6.242</b>	-	-	<b>6.549</b>	-	-	<b>0.000</b>	-	-	<b>6.549</b>
<b>Total</b>			-	-	-	-	-	<b>3.894</b>	-	-	<b>6.242</b>	-	-	<b>6.549</b>	-	-	<b>0.000</b>	-	-	<b>6.549</b>

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2						<b>P-1 Line Item Number / Title:</b> 832070 / Intelligence Comm Equipment						<b>Aggregated Items Title:</b> Defense Joint Counterintelligence Activities							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
DEFENSE JOINT COUNTERINTELLIGENCE PROGRAM PE 0305146F	A		-	-	-	-	-	0.460	-	-	0.711	-	-	1.181	-	-	0.000	-	-	1.181
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.460</b>	-	-	<b>0.711</b>	-	-	<b>1.181</b>	-	-	<b>0.000</b>	-	-	<b>1.181</b>
<b>Total</b>			-	-	-	-	-	<b>0.460</b>	-	-	<b>0.711</b>	-	-	<b>1.181</b>	-	-	<b>0.000</b>	-	-	<b>1.181</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / Intelligence Comm Equipment	<b>Aggregated Items Title:</b> Integrated Broadcast Service (IBS)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
IBS-NS PE 1203179F	A		-	-	-	-	-	1.905	-	-	4.003	-	-	4.000	-	-	-	-	-	4.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>1.905</b>	-	-	<b>4.003</b>	-	-	<b>4.000</b>	-	-	-	-	-	<b>4.000</b>
<b>Total</b>			-	-	-	-	-	<b>1.905</b>	-	-	<b>4.003</b>	-	-	<b>4.000</b>	-	-	-	-	-	<b>4.000</b>

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

**Remarks:**

(6) IBS-NS: Capital equipment replacement of the Global IBS Servers (GINS), Theater Interface Nodes (TINS), CIB Uplink Sites (CUS), and IBS Network equipment



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**Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 2 **P-1 Line Item Number / Title:** 832070 / Intelligence Comm Equipment **Aggregated Modification Items Title:** Integrated Broadcast Service (IBS)

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Mod 1 IBS / Mod 1 IBS			-	-	5.258	-	-	1.548	-	-	3.741	-	-	3.354	-	-	0.000	-	-	3.354
Mod 2 / Mod 2			-	-	6.275	-	-	3.167	-	-	3.167	-	-	3.133	-	-	0.000	-	-	3.133
Mod 3 / Mod 3			-	-	2.572	-	-	0.816	-	-	1.298	-	-	1.463	-	-	0.000	-	-	1.463
Mod 4 / Mod 4			-	-	4.165	-	-	2.102	-	-	2.370	-	-	2.276	-	-	0.000	-	-	2.276
Mod 5 / Mod 5			-	-	2.933	-	-	5.473	-	-	1.873	-	-	3.057	-	-	0.000	-	-	3.057
<b>Total</b>			-	-	<b>21.203</b>	-	-	<b>13.106</b>	-	-	<b>12.449</b>	-	-	<b>13.283</b>	-	-	<b>0.000</b>	-	-	<b>13.283</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
Mod 1 IBS / Mod 1 IBS	IBS	Capability Improvement
Mod 2 / Mod 2	IBS	Capability Improvement
Mod 3 / Mod 3	IBS	Capability Improvement
Mod 4 / Mod 4	IBS	Capability Improvement
Mod 5 / Mod 5	IBS	Capability Improvement

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force</b>														<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2						<b>P-1 Line Item Number / Title:</b> 832070 / Intelligence Comm Equipment						<b>Aggregated Modification Items Title:</b> Military Intelligence Program (MIP) Activities							

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
MIP1 / JWICS			-	-	3.920	-	-	2.900	-	-	4.516	-	-	4.434	-	-	0.000	-	-	4.434
<b>Total</b>			-	-	<b>3.920</b>	-	-	<b>2.900</b>	-	-	<b>4.516</b>	-	-	<b>4.434</b>	-	-	<b>0.000</b>	-	-	<b>4.434</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
MIP1 / JWICS	0301592F	Reliability & Maintainability

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**Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 2 **P-1 Line Item Number / Title:** 832070 / Intelligence Comm Equipment **Aggregated Modification Items Title:** Network-Centric Collaborative Targeting

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
NCCT1 / Replacement of Ground Stations			-	-	2.970	-	-	3.517	-	-	2.583	-	-	3.312	-	-	0.000	-	-	3.312
<b>Total</b>			-	-	<b>2.970</b>	-	-	<b>3.517</b>	-	-	<b>2.583</b>	-	-	<b>3.312</b>	-	-	<b>0.000</b>	-	-	<b>3.312</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
NCCT1 / Replacement of Ground Stations	NA	Reliability & Maintainability

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 2 **P-1 Line Item Number / Title:** 832070 / Intelligence Comm Equipment **Aggregated Items Title:** Intelligence Mission Data (IMD)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Intelligence Mission Data (IMD)</b>																				
Operational Reconnaissance Data Automation	A		-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
Intelligence Mission Data (IMD) Advanced NCTR Collect	A		-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.813	-	-	0.000	-	-	0.813
<b>Subtotal: Intelligence Mission Data (IMD)</b>			-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>1.313</b>	-	-	<b>0.000</b>	-	-	<b>1.313</b>
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>1.313</b>	-	-	<b>0.000</b>	-	-	<b>1.313</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 2 **P-1 Line Item Number / Title:** 832070 / Intelligence Comm Equipment **Aggregated Items Title:** Space Superiority Intelligence

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Space Superiority Intelligence PE 0301400F	A		-	-	-	-	-	3.490	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>3.490</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>3.490</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 2	<b>P-1 Line Item Number / Title:</b> 832070 / Intelligence Comm Equipment	<b>Aggregated Items Title:</b> Space Superiority Intelligence
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Space Superiority Intel</b>																				
New Item	A		-	-	-	-	-	-	-	-	-	-	-	-	2.000	1	2.000	2.000	1	2.000
<b>Subtotal: Space Superiority Intel</b>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>2.000</b>	-	-	<b>2.000</b>
<b>Total</b>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>2.000</b>	-	-	<b>2.000</b>

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

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:**  
 Equip / BSA 3: Electronics Programs 833010 / Air Traffic Control & Landing Sys

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

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

Resource Summary	Prior Years	FY 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> )	12.434	28.823	121.853	66.143	56.500	122.643	57.962	58.334	66.071	74.915	-	543.035
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	12.434	28.823	121.853	66.143	56.500	122.643	57.962	58.334	66.071	74.915	-	543.035
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>12.434</b>	<b>28.823</b>	<b>121.853</b>	<b>66.143</b>	<b>56.500</b>	<b>122.643</b>	<b>57.962</b>	<b>58.334</b>	<b>66.071</b>	<b>74.915</b>	-	<b>543.035</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	1.011	3.406	3.131	-	3.131	0.939	0.957	3.143	3.201	-	15.788
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Air Traffic Control and Landing Systems (ATCALs) procures and supports fixed-base and tactical radar, navigation aids, voice communications, and data processing/automation capabilities which enables Air Force (AF) air traffic controllers to provide advisory, sequencing, separation, and landing guidance services to all aircraft in AF-assigned airspace. In support of Global Mobility, Agile Combat Support, Global Strike, Homeland Security, and Global Response concepts of operation, ATCALs centrally manages the Air Force's Air Traffic Control capability to ensure Air Traffic Control facilities/equipment can safely and expeditiously support en route and terminal operations in benign and combat areas of responsibility. ATCALs operational and training systems must be interoperable with systems operated by other services, the Federal Aviation Administration (FAA), or host nations.

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.

AIR TRAFFIC CONTROL AND AIRFIELD OPERATIONS (ATC OPS): ATC OPS provides for procurement of new systems and replacement, modification, or mitigation of diminishing manufacturing source issues of legacy ATC navigation and landing systems, as well as related voice communications, data processing/automation systems, and ancillary equipment such as ATC digital audio legal recorders, flight data input/output systems, electronic flight strip systems, air traffic information systems, instrument procedures, and airfield management systems. A key element of ATC OPS is the ATCALs Fixed Base (FB) Navigational Aids (NAVAIDs) Family of Systems (FOS) replacement program, which combines organizational realignments, process improvements, and investments in state-of-the-art commercial-off-the-shelf technology to replace legacy fixed and deployable equipment. The FB NAVAIDS FOS replacement program includes the fixed base Very High Frequency (VHF) Omnidirectional Range System (VOR), Tactical Air Navigation (TACAN), and VORTAC (combined VOR/TACAN), Deployable TACAN, and Digital ATC radios. ATC OPS also includes procurement of a new Deployable Instrument Landing System (D-ILS) and Deployable Radar Approach Control (D-RAPCON) which will replace 1960/1970s era legacy systems. These investments will result in significant manpower and operations/maintenance savings over the next 20 years.

1. DIGITAL AIR TRAFFIC CONTROL (ATC) RADIO REPLACEMENT: The ATC ground-to-air VHF and Ultra High Frequency (UHF) radios are 30 years old and difficult to maintain. The Digital ATC Radio Replacement Program will replace ATC fixed-base radios with state-of-the-art systems that will include a remote maintenance capability and 8.33kHz channel spacing (mandatory requirement in Europe by FY2018). In order to ensure system commonality and common logistics support and training, ATC radios are being procured as a centrally managed item by the Air Force Life Cycle Management Center at Tinker AFB. Approximately 5,200 radios will be replaced.

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
Equip / BSA 3: Electronics Programs

**P-1 Line Item Number / Title:**  
833010 / Air Traffic Control & Landing Sys

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

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

2. ATCALs Fixed Base (FB) Navigational Aids (NAVAIDS) FoS: The FB NAVAIDS FOS replaces the current 1970s era systems which have reached the end of their normal lifespan, are manpower intensive, and costly to support. New systems will include remote maintenance, monitoring, alignment, and flight inspection support capabilities via Remote Maintenance Centers (RMC). One VOR (1 AD), 28 VORTACs (25 AD/1 ANG/2 AFR), and 92 fixed-based TACANs (76 AD/10 ANG/6 AFR) will be procured from FY2012 through FY2018.

3. DEPLOYABLE INSTRUMENT LANDING SYSTEM (D-ILS): D-ILS is a deployable Category I (200ft decision height/2400ft runway visual range) ILS with remote monitoring and maintenance capabilities. D-ILS will provide precision approach capability in adverse weather conditions to support tactical military and worldwide humanitarian/disaster relief operations and provide interoperability with the Civil Reserve Air Fleet in the area of responsibility. D-ILS replaces the current Air Force mobile Precision Approach Radar (PAR) system. These systems were procured in the 1970s, are manpower intensive, and logistically unsupportable. On average, only four of 14 mobile PAR systems are operational on a daily basis and none are fully mission capable. Two ILSs are required to replace each PAR, one for each end of the primary runway (the mobile PAR is mounted on a turntable which allows it to be rotated to cover the operational runway end). A total of 30 D-ILSs will be procured to replace four Active Duty and ten Air National Guard (ANG) mobile PARs. One training system and one depot rotatable system will also be procured. D-ILS is normally deployed with the Deployable Radar Approach Control System, a mobile Air Traffic Control Tower, and mobile TACAN.

4. DEPLOYABLE RADAR APPROACH CONTROL SYSTEM (D-RAPCON): D-RAPCON will replace the 1960/1970s era AN/MPN-14K and AN/TPN-19 Airport Surveillance Radar and Operations Shelter subsystems with state-of-the-art digital systems. Modification and overhaul of the existing systems has proven to be ineffective due to diminishing manufacturing sources. On average, due to systemic equipment failures, no more than four of the existing 14 systems are deployable at any given time and none are fully mission capable. The current AN/TPN-19 (four systems) and AN/MPN-14K (ten systems) operational availability rates are 25% and 60% respectively versus the D-RAPCON requirement of 98%. D-RAPCON will provide aircraft surveillance/sequencing, air traffic control communications, and automation capabilities for terminal area air traffic control operations. D-RAPCON will also be deployed with a D-ILS, mobile control tower, and mobile TACAN to provide a complete air traffic control capability. The D-RAPCON will support tactical military and worldwide humanitarian operations and also support domestic disaster relief. The primary surveillance radar coverage (non-cooperative targets) is out to 60 nautical miles (nm) and the secondary surveillance radar coverage (cooperative targets) will increase from 120 nm up to 200 nm. Due to diminishing manufacturing sources, life of type purchases will be required each year. A total of 16 D-RAPCONs will be procured. Four for the Active Duty (three for the 53rd Air Traffic Control Squadron (ATCS) at Robins AFB, one for the 1st ATCS at Ramstein AF, one trainer, and one depot rotatable) and one for each of 10 ANG ATCSs.

Current year funding totals include \$42.650M appropriated for Overseas Contingency Operations.

Funding for this exhibit is contained in Program Element (PE) 0305114F.

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	154	1,317	206	1	207	102	325	617	939
	Total Obligation Authority	26.883	90.233	66.143	16.840	82.983	29.392	26.263	23.057	32.971
AFNG	Quantity	4	6	0	7	7	52	202	202	106
	Total Obligation Authority	1.552	31.620	0.000	39.660	39.660	27.754	31.792	32.419	31.016
AFR	Quantity	1	0	0	0	0	40	50	0	0
	Total Obligation Authority	0.388	0.000	0.000	0.000	0.000	0.816	1.017	0.000	0.000
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	<b>159</b>	<b>1,323</b>	<b>206</b>	<b>8</b>	<b>214</b>	<b>194</b>	<b>577</b>	<b>819</b>	<b>1,045</b>
	<b>Total Obligation Authority</b>	<b>28.823</b>	<b>121.853</b>	<b>66.143</b>	<b>56.500</b>	<b>122.643</b>	<b>57.962</b>	<b>59.072</b>	<b>55.476</b>	<b>63.987</b>



**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs **P-1 Line Item Number / Title:** 833010 / Air Traffic Control & Landing Sys

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

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

Exhibits Schedule					Prior Years	FY 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	Digital Air Traffic Control Radio Replacement				- / -	- / 2.590	- / 26.682	- / 3.599	- / -	- / 3.599
P-5	Deployable Radar Approach Control (D-RAPCON)	P-5a, P-21	A		- / -	- / -	2 / 24.866	2 / 48.579	1 / 16.500	3 / 65.079
P-5	FB NAVAIDS FOS TACAN/VORTAC		A		- / 12.434	20 / 10.400	30 / 16.249	21 / 9.927	- / 0.000	21 / 9.927
P-5	D-ILS	P-5a, P-21	A		- / -	3 / 15.833	9 / 54.056	- / 4.038	7 / 40.000	7 / 44.038
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 12.434</b>	<b>- / 28.823</b>	<b>- / 121.853</b>	<b>- / 66.143</b>	<b>- / 56.500</b>	<b>- / 122.643</b>

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

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

**Justification:**

- DIGITAL AIR TRAFFIC CONTROL (ATC) RADIO REPLACEMENT: FY18 funds procure 183 systems (183 AD/0 ANG/0 AFR).
- ATCALS Fixed Base (FB) Navigational Aids (NAVAIDS) Family of Systems (FoS): FY18 funds procure 12 TACANs (12 AD/0 ANG/0 AFR) and 9 VORTACs (9 AD/0 ANG/0 AFR).
- DEPLOYABLE INSTRUMENT LANDING SYSTEM (D-ILS): FY18 base funds provide direct mission support and maintain program office; FY18 OCO funds procure 7 systems (1 AD/6 ANG/0 AFR).
- DEPLOYABLE RADAR APPROACH CONTROL (D-RAPCON): FY18 base funds procure 2 systems (2 AD/0 ANG/0 AFR); FY18 OCO funds procure 1 system (0 AD/1 ANG/0 AFR).

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3							<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys								<b>Aggregated Items Title:</b> Digital Air Traffic Control Radio Replacement				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Digital Air Traffic Control (ATC) Radio</b>																				
Single Channel ATCI Radio	A		-	-	-	0.019	136	2.590	0.019	562	10.862	0.020	183	3.599	-	-	-	0.020	183	3.599
<i>Secondary Distribution</i>																				
AF				-	-		136	2.590		562	10.862		183	3.599		-	-		183	3.599
Tunable Transceiver ATC Radio	A		-	-	-	-	-	-	0.027	480	12.760	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		480	12.760		-	-		-	-		-	-
Tunable Transceiver ATC Radio Control Unit	A		-	-	-	-	-	-	0.013	240	3.060	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		240	3.060		-	-		-	-		-	-
<b>Subtotal: Digital Air Traffic Control (ATC) Radio</b>			-	-	-	-	-	2.590	-	-	26.682	-	-	3.599	-	-	-	-	-	3.599
<b>Total</b>			-	-	-	-	-	2.590	-	-	26.682	-	-	3.599	-	-	-	-	-	3.599

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

**Remarks:**  
Radios are identified in supply system as centrally managed are being procured by the Air Force Life cycle Management Center at Tinker AFB through an FAA contract awarded to General Dynamics with fixed price options extending through 2022.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys	<b>Item Number / Title [DODIC]:</b> - / Deployable Radar Approach Control (D-RAPCON)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity (Units in Each)	-	-	2	2	1	3
Gross/Weapon System Cost (\$ in Millions)	-	-	24.866	48.579	16.500	65.079
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	24.866	48.579	16.500	65.079
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>24.866</b>	<b>48.579</b>	<b>16.500</b>	<b>65.079</b>

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

Initial Spares (\$ in Millions)	-	-	1.009	1.294	0.000	1.294
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	12.433	24.290	16.500	21.693

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - D-RAPCON Cost</b>																		
Recurring Cost																		
PME Refurbished Unit Active Duty	-	-	-	-	-	-	3.571	1	3.571	-	-	-	-	-	-	-	-	-
PME Production Unit Active Duty <sup>(†)</sup>	-	-	-	-	-	-	14.933	1	14.933	12.780	2	25.560	-	-	-	12.780	2	25.560
PME Production Unit ANG <sup>(†)</sup>	-	-	-	-	-	-	-	-	0.000	-	-	0.000	12.780	1	12.780	12.780	1	12.780
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	18.504	-	-	25.560	-	-	12.780	-	-	38.340
<i>Subtotal: Hardware - D-RAPCON Cost</i>	-	-	-	-	-	-	-	-	18.504	-	-	25.560	-	-	12.780	-	-	38.340
<b>Support - D-RAPCON Cost</b>																		
Other Procurement Cost	-	-	-	-	-	-	-	-	5.287	-	-	17.742	-	-	1.878	-	-	19.620
Direct Mission Support/ GFE	-	-	-	-	-	-	-	-	0.462	-	-	1.741	-	-	1.282	-	-	3.023
PMA Contractor Services AFLCMC (Hanscom AFB)	-	-	-	-	-	-	-	-	0.161	-	-	1.993	-	-	-	-	-	1.993
PMA Other Government Costs	-	-	-	-	-	-	-	-	0.452	-	-	1.543	-	-	0.560	-	-	2.103
<i>Subtotal: Support - D-RAPCON Cost</i>	-	-	-	-	-	-	-	-	6.362	-	-	23.019	-	-	3.720	-	-	26.739
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	12.433	2	24.866	24.290	2	48.579	16.500	1	16.500	21.693	3	65.079

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys	<b>Item Number / Title [DODIC]:</b> - / Deployable Radar Approach Control (D-RAPCON)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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**Remarks:**  
Unit cost difference: FY17 funds procure one production system (\$14.9M) and one preproduction system (\$3.6M). FY18 funding procures two production systems at unit cost of \$12.780M for a total of \$25.560M. FY18 funding also includes \$8.6M for standup of organic depot.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	-	2	2	0	2
	Total Obligation Authority	-	24.866	48.579	3.720	52.299
AFNG	Quantity	-	0	0	1	1
	Total Obligation Authority	-	0.000	0.000	12.780	12.780
AFR	Quantity	-	0	0	0	0
	Total Obligation Authority	-	0.000	0.000	0.000	0.000
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	-	2	2	1	3
	<b>Total Obligation Authority</b>	-	24.866	48.579	16.500	65.079

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force</b>							<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3			<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys				<b>Item Number / Title [DODIC]:</b> - / Deployable Radar Approach Control (D-RAPCON)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
PME Production Unit Active Duty <sup>(†)</sup>		2017	Raytheon IDS / Marlboro, MA	C / FPIF	AFLCMC Hanscom AFB	Jan 2018	Mar 2019	1	14.933	Y		Sep 2016
PME Production Unit Active Duty <sup>(†)</sup>		2018	Raytheon IDS / Marlboro, MA	C / FPIF	AFLCMC Hanscom AFB	Jul 2018	Jun 2019	2	12.780	Y		Sep 2016
PME Production Unit ANG <sup>(†)</sup>	✓	2018	Raytheon IDS / Marlboro, MA	C / FPIF	AFLCMC Hanscom AFB	Jul 2018	Oct 2019	1	12.780	Y		Sep 2016

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

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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Air Force															<b>Date:</b> May 2017														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys										<b>Item Number / Title [DODIC]:</b> - / Deployable Radar Approach Control (D-RAPCON)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018													Fiscal Year 2019													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
PME Production Unit Active Duty																																	
	1	2017	AF	1	0	1					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1				0	
	1	2018	AF	2	0	2								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	0
PME Production Unit ANG																																	
✓	2	2018	AF	1	0	1								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	E	A	A	U	U	A	S			
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P			

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> FY 2018 Air Force															<b>Date:</b> May 2017														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys										<b>Item Number / Title [DODIC]:</b> - / Deployable Radar Approach Control (D-RAPCON)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020														Fiscal Year 2021														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020														Calendar Year 2021														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
PME Production Unit Active Duty																																			
	1	2017	AF	1	1	0																												0	
	1	2018	AF	2	2	0																												0	
PME Production Unit ANG																																			
✓	2	2018	AF	1	0	1	1																											0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys
		<b>Item Number / Title [DODIC]:</b> - / Deployable Radar Approach Control (D-RAPCON)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Raytheon IDS - Marlboro, MA	1	6	8	0	0	0	0	0	1	10	11	21
2	Raytheon IDS - Marlboro, MA	1	6	8	0	0	0	0	0	1	10	15	25

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

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



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date: May 2017</b>
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys	<b>Item Number / Title [DODIC]:</b> - / FB NAVAIIDs FOS TACAN/VORTAC

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	20	30	21	-	21
Gross/Weapon System Cost (\$ in Millions)	12.434	10.400	16.249	9.927	0.000	9.927
Less PY Advance Procurement (\$ in Millions)	-	0.000	0.000	0.000	-	0.000
Net Procurement (P-1) (\$ in Millions)	12.434	10.400	16.249	9.927	0.000	9.927
Plus CY Advance Procurement (\$ in Millions)	-	0.000	0.000	0.000	-	0.000
<b>Total Obligation Authority (\$ in Millions)</b>	<b>12.434</b>	<b>10.400</b>	<b>16.249</b>	<b>9.927</b>	<b>0.000</b>	<b>9.927</b>

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

Initial Spares (\$ in Millions)	-	0.955	1.875	1.766	-	1.766
Gross/Weapon System Unit Cost (\$ in Millions)	-	0.520	0.542	0.473	-	0.473

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - FB NAVAIIDs FOS TACAN/VORTAC Cost</b>																		
Recurring Cost																		
FB NAVAIIDs FOS TACAN Replacement Active Duty	0.381	15	5.715	0.388	15	5.820	0.388	23	8.924	0.395	12	4.740	-	-	0.000	0.395	12	4.740
FB NAVAIIDs FOS TACAN Replacement ANG	0.381	5	1.905	0.388	4	1.552	-	-	-	-	-	-	-	0.000	-	-	-	0.000
FB NAVAIIDs FOS TACAN Replacement AFR	0.381	4	1.524	0.388	1	0.388	-	-	-	-	-	-	-	0.000	-	-	-	0.000
FB NAVAIIDs FOS VORTAC Replacement Active Duty	0.470	7	3.290	-	-	0.000	0.470	7	3.290	0.478	9	4.302	-	-	0.000	0.478	9	4.302
<i>Subtotal: Recurring Cost</i>	-	-	12.434	-	-	7.760	-	-	12.214	-	-	9.042	-	-	0.000	-	-	9.042
<i>Subtotal: Hardware - FB NAVAIIDs FOS TACAN/VORTAC Cost</i>	-	-	12.434	-	-	7.760	-	-	12.214	-	-	9.042	-	-	0.000	-	-	9.042
<b>Support - FB NAVAIIDs FOS TACAN/VORTAC Cost</b>																		
Tech Order Digitization	-	-	-	-	-	0.000	-	-	0.260	-	-	0.000	-	-	-	-	-	0.000
Interim Contractor Support	-	-	-	-	-	0.000	-	-	0.250	-	-	0.000	-	-	-	-	-	0.000
Depot Activation	-	-	-	-	-	1.000	-	-	1.551	-	-	0.204	-	-	-	-	-	0.204
Direct Mission Support	-	-	-	-	-	0.664	-	-	0.590	-	-	0.275	-	-	-	-	-	0.275

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>													<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys						<b>Item Number / Title [DODIC]:</b> - / FB NAVAIDS FOS TACAN/VORTAC						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ATCALs PMA AFLCMC (Tinker AFB) Contractor Services	-	-	-	-	-	0.650	-	-	0.980	-	-	0.000	-	-	-	-	-	0.000
ATCALs PMA AFLCMC (Tinker AFB) Other Government Costs	-	-	-	-	-	0.205	-	-	0.204	-	-	0.201	-	-	-	-	-	0.201
Installation Travel	-	-	-	-	-	0.121	-	-	0.200	-	-	0.205	-	-	-	-	-	0.205
<i>Subtotal: Support - FB NAVAIDS FOS TACAN/ VORTAC Cost</i>	-	-	-	-	-	<b>2.640</b>	-	-	<b>4.035</b>	-	-	<b>0.885</b>	-	-	-	-	-	<b>0.885</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>12.434</b>	<b>0.520</b>	<b>20</b>	<b>10.400</b>	<b>0.542</b>	<b>30</b>	<b>16.249</b>	<b>0.473</b>	<b>21</b>	<b>9.927</b>	-	-	<b>0.000</b>	<b>0.473</b>	<b>21</b>	<b>9.927</b>

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	15	30	21	0	21
	Total Obligation Authority	8.460	16.249	9.927	0.000	9.927
AFNG	Quantity	4	-	-	-	-
	Total Obligation Authority	1.552	0.000	0.000	0.000	0.000
AFR	Quantity	1	-	-	-	-
	Total Obligation Authority	0.388	0.000	0.000	0.000	0.000
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>20</b>	<b>30</b>	<b>21</b>	<b>-</b>	<b>21</b>
	<b>Total Obligation Authority</b>	<b>10.400</b>	<b>16.249</b>	<b>9.927</b>	<b>0.000</b>	<b>9.927</b>

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**Exhibit P-5, Cost Analysis: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys	<b>Item Number / Title [DODIC]:</b> - / D-ILS
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **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)	-	3	9	-	7	7
Gross/Weapon System Cost (\$ in Millions)	-	15.833	54.056	4.038	40.000	44.038
Less PY Advance Procurement (\$ in Millions)	-	0.000	0.000	0.000	-	0.000
Net Procurement (P-1) (\$ in Millions)	-	15.833	54.056	4.038	40.000	44.038
Plus CY Advance Procurement (\$ in Millions)	-	0.000	0.000	0.000	-	0.000
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>15.833</b>	<b>54.056</b>	<b>4.038</b>	<b>40.000</b>	<b>44.038</b>

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

Initial Spares (\$ in Millions)	-	0.000	0.446	0.000	0.000	0.000
Gross/Weapon System Unit Cost (\$ in Millions)	-	5.278	6.006	-	5.714	6.291

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - D-ILS Cost																		
Recurring Cost																		
D-ILS Systems Active Duty <sup>(1)</sup>	-	-	-	4.775	3	14.325	5.073	3	15.220	-	-	0.000	5.376	1	5.376	5.376	1	5.376
D-ILS ANG <sup>(†)</sup>	-	-	-	-	-	0.000	5.073	6	30.438	-	-	0.000	5.376	6	32.256	5.376	6	32.256
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	14.325	-	-	45.658	-	-	0.000	-	-	37.632	-	-	37.632
<i>Subtotal: Hardware - D-ILS Cost</i>	-	-	-	-	-	14.325	-	-	45.658	-	-	0.000	-	-	37.632	-	-	37.632
Support - D-ILS Cost																		
Direct Mission Support/ Interim Contractor Support	-	-	-	-	-	0.812	-	-	5.887	-	-	2.454	-	-	2.368	-	-	4.822
PMA Contractor Services AFLCMC (Hanscom AFB)	-	-	-	-	-	0.696	-	-	2.511	-	-	1.584	-	-	-	-	-	1.584
<i>Subtotal: Support - D-ILS Cost</i>	-	-	-	-	-	1.508	-	-	8.398	-	-	4.038	-	-	2.368	-	-	6.406
<b>Gross/Weapon System Cost</b>	-	-	-	5.278	3	15.833	6.006	9	54.056	-	-	4.038	5.714	7	40.000	6.291	7	44.038

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	3	3	0	1	1
	Total Obligation Authority	15.833	22.436	4.038	13.120	17.158
AFNG	Quantity	-	6	-	6	6

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>	<b>Date: May 2017</b>
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys	<b>Item Number / Title [DODIC]:</b> - / D-ILS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
<b>Secondary Distribution</b>						
	Total Obligation Authority	0.000	31.620	0.000	26.880	26.880
AFR	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000
<b>Total:</b>	<b>Quantity</b>	<b>3</b>	<b>9</b>	<b>-</b>	<b>7</b>	<b>7</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>15.833</b>	<b>54.056</b>	<b>4.038</b>	<b>40.000</b>	<b>44.038</b>

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

**Footnotes:**

(1) Firm Fixed Price (FFP) contract with production option.

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**Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys	<b>Item Number / Title [DODIC]:</b> - / D-ILS
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
D-ILS ANG <sup>(†)</sup>		2017	Thales / Clarksburg, Maryland	SS / FFP	AFLCMC Hanscom AFB	Jun 2017	Apr 2018	6	5.073	Y		Feb 2016
D-ILS ANG <sup>(†)</sup>	✓	2018	Thales / Clarksburg, Maryland	SS / FFP	AFLCMC Hanscom AFB	Dec 2017	Nov 2018	6	5.376	Y		Feb 2016

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



**UNCLASSIFIED**

**Exhibit P-21, Production Schedule: FY 2018 Air Force** **Date: May 2017**

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 3 **P-1 Line Item Number / Title:** 833010 / Air Traffic Control & Landing Sys **Item Number / Title [DODIC]:** - / D-ILS

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
D-ILS ANG																															
	1	2017	AF	6	6	0																							0		
✓	1	2018	AF	6	0	6	-	1	-	1	1	1	1	1															0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Air Force	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833010 / Air Traffic Control & Landing Sys	<b>Item Number / Title [DODIC]:</b> - / D-ILS
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Thales - Clarksburg, Maryland	3	10	12	0	0	0	0	0	0	3	11	14

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

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



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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
**P-1 Line Item Number / Title:** 833020 / National Airspace System  
 Equip / BSA 3: Electronics Programs

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305114F

**Line Item MDAP/MAIS Code:** 537

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> )	753.574	5.833	2.673	12.641	0.000	12.641	0.000	0.000	0.000	0.000	0.000	774.721
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	753.574	5.833	2.673	12.641	0.000	12.641	0.000	0.000	0.000	0.000	0.000	774.721
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>753.574</b>	<b>5.833</b>	<b>2.673</b>	<b>12.641</b>	<b>0.000</b>	<b>12.641</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>774.721</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	0.247	-	0.247	-	-	-	-	-	0.247
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

PE 0305137F NATIONAL AIRSPACE SYSTEM (NAS)

NAS is an Acquisition Category (ACAT) IC (Component) program which entered full rate production on 15 Jun 05. It modernizes the Department of Defense (DoD) Air Traffic Control (ATC) system in concert with the Federal Aviation Administration (FAA) modernization effort. The FAA is the overall NAS program lead and the Air Force (AF) is the DoD lead. NAS increases safety of flight, provides systems and facilities interoperable with FAA modernization, replaces aging DoD ATC systems, provides identical service to military and civilian aircraft, and reduces DoD flight cancellations/delays and maintenance. Equipment procured includes ATC automation systems, surveillance radars, voice switches, military site-unique equipment (at test range facilities), associated Pre-Planned Product Improvements, site preparation, installation support, ancillary equipment and supplies, direct production support, and flight, periodic security interoperability, and information technology certifications. For the AF, this includes procurement funding for 91 DoD Advanced Automation Systems (DAASs) [45 Radar Approach Control Facilities and 46 Air Traffic Control Towers], 50 Digital Airport Surveillance Radars (DASRs), and other equipment required to interface with the FAA.

DAAS replaces the 1978 era Programmable Indicator Data Processor and is comprised of equipment tailored to support two types of ATC operations facilities: Radar Approach Control (RAPCON) and military control tower facilities. DAAS includes digital radar displays, consoles, and automation hardware and software to replace systems approaching the end of their life cycle.

DASR replaces the current generation of DoD analog ATC surveillance radars and consists of two subsystems: a primary and a secondary surveillance radar. These subsystems provide aircraft position and other data to controller displays in the RAPCON and at select control tower locations.

To date, the NAS program has procured and installed 48 DASR and 91 DAAS systems. To support increased remotely piloted aircraft operations, there are two additional DASRs remaining to be procured and installed: one funded with FY15 funds (approved in FY16 Omnibus Above Threshold request) at Nellis AFB and one funded in FY18 for Creech AFB. The NAS FOC will occur in FY20 with installation of the Creech DASR. NAS is also transitioning to the operations and support phase which will focus on mitigation of DAAS/DASR diminishing manufacturing source (DMS) and sustainment issues. Funds for NAS sustainment modifications are being programmed in the Communications Electronics Modification P-1 Line #49 under the NAS program element 0305137F.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. Reserve component allocations are subject to Total Force priorities and demand.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
 Equip / BSA 3: Electronics Programs

**P-1 Line Item Number / Title:**  
 833020 / National Airspace System

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305114F

**Line Item MDAP/MAIS Code:** 537

PE 0305114F AIR TRAFFIC CONTROL AND LANDING SYSTEMS (ATCALs)

ATCALs procures and supports fixed-base and tactical radar, navigation aids, voice communications, and data processing/automation capabilities. ATCALs enables Air Force (AF) air traffic controllers to provide advisory, sequencing, separation, and landing guidance services to all aircraft in AF-assigned airspace. NAS support in the ATALS PE 0305114F currently includes procurement of one DAAS for the ATCALs/DAAS Operational Support Facility (OSF) at the Air Force Flight Standards Agency in Oklahoma City, OK.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. Reserve component allocations are subject to Total Force priorities and demand.

Funding for this exhibit is contained in PE 0305137F and PE 0305114F.

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	1	0	1	0	1	0	0	0	0
	Total Obligation Authority	5.833	2.673	12.641	0.000	12.641	0.000	0.000	0.000	0.000
AFNG	Quantity	0	0	0	0	0	0	0	0	0
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AFR	Quantity	0	0	0	0	0	0	0	0	0
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total Obligation Authority</b>	<b>5.833</b>	<b>2.673</b>	<b>12.641</b>	<b>0.000</b>	<b>12.641</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs **P-1 Line Item Number / Title:** 833020 / National Airspace System

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305114F

**Line Item MDAP/MAIS Code:** 537

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	Air Traffic Control, Approach, and Landing System (ATCALs)				- / -	- / 3.628	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-5	National Airspace System (NAS) Plan	P-5a, P-21	A		140 / 753.574	- / 2.205	- / 2.673	1 / 12.641	- / 0.000	1 / 12.641
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 753.574</b>	<b>- / 5.833</b>	<b>- / 2.673</b>	<b>- / 12.641</b>	<b>- / 0.000</b>	<b>- / 12.641</b>

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

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

**Justification:**  
 PE 0305137F NATIONAL AIRSPACE SYSTEM (NAS):  
  
 FY18: Funds procure and commission one DASR for Creech AFB.  
  
 PE 0305114F Air Traffic Control and Landing Systems (ATCALs):  
  
 ATCALs/DAAS OSF EQUIPMENT: No FY18 funds are requested.

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833020 / National Airspace System						<b>Aggregated Items Title:</b> Air Traffic Control, Approach, and Landing System (ATCALs)							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>NAS Capital Equipment Replacement</b>																				
ATCALs/NAS Equip (1)	A		-	-	-	3.628	1	3.628	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-		1	3.628		-	0.000		-	0.000		-	0.000		-	0.000
<b>Subtotal: NAS Capital Equipment Replacement</b>			-	-	-	-	-	<b>3.628</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>3.628</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

**Footnotes:**  
<sup>(1)</sup> Option to the Federal Aviation Administration Standard Terminal Automated Replacement System contract (also known as DAAS).

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833020 / National Airspace System	<b>Item Number / Title [DODIC]:</b> - / National Airspace System (NAS) Plan

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	140	-	-	1	-	1
Gross/Weapon System Cost (\$ in Millions)	753.574	2.205	2.673	12.641	0.000	12.641
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	753.574	2.205	2.673	12.641	0.000	12.641
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>753.574</b>	<b>2.205</b>	<b>2.673</b>	<b>12.641</b>	<b>0.000</b>	<b>12.641</b>

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

Initial Spares (\$ in Millions)	0.000	0.000	0.000	0.247	0.000	0.247
Gross/Weapon System Unit Cost (\$ in Millions)	5.383	-	-	12.641	-	12.641

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - NAS Cost</b>																		
Recurring Cost																		
DAAS/DASR <sup>(†)</sup>	4.806	140	672.771	-	-	0.000	-	-	0.000	12.121	1	12.121	-	-	-	12.121	1	12.121
<i>Subtotal: Recurring Cost</i>	-	-	672.771	-	-	0.000	-	-	0.000	-	-	12.121	-	-	-	-	-	12.121
<b>Subtotal: Hardware - NAS Cost</b>	-	-	<b>672.771</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>12.121</b>	-	-	-	-	-	<b>12.121</b>
<b>Logistics - Logistics End Item Cost</b>																		
Recurring Cost																		
DASR Site Activation	-	-	49.437	-	-	0.000	-	-	0.000	-	-	0.220	-	-	-	-	-	0.220
<i>Subtotal: Recurring Cost</i>	-	-	49.437	-	-	0.000	-	-	0.000	-	-	0.220	-	-	-	-	-	0.220
<b>Subtotal: Logistics - Logistics End Item Cost</b>	-	-	<b>49.437</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.220</b>	-	-	-	-	-	<b>0.220</b>
<b>Support - Support End Item Cost</b>																		
Program Management Administration Contractor Services	-	-	25.053	-	-	2.123	-	-	2.588	-	-	0.150	-	-	0.000	-	-	0.150
Program Management Administration Other Government Costs	-	-	6.313	-	-	0.082	-	-	0.085	-	-	0.150	-	-	-	-	-	0.150
<b>Subtotal: Support - Support End Item Cost</b>	-	-	<b>31.366</b>	-	-	<b>2.205</b>	-	-	<b>2.673</b>	-	-	<b>0.300</b>	-	-	<b>0.000</b>	-	-	<b>0.300</b>
<b>Gross/Weapon System Cost</b>	<b>5.383</b>	<b>140</b>	<b>753.574</b>	-	-	<b>2.205</b>	-	-	<b>2.673</b>	<b>12.641</b>	<b>1</b>	<b>12.641</b>	-	-	<b>0.000</b>	<b>12.641</b>	<b>1</b>	<b>12.641</b>

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833020 / National Airspace System	<b>Item Number / Title [DODIC]:</b> - / National Airspace System (NAS) Plan
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Secondary Distribution</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
AF	0	0	1	0	1
Quantity					
Total Obligation Authority	2.205	2.673	12.641	0.000	12.641
<b>Total: Secondary Distribution</b>					
Quantity	-	-	1	-	1
Total Obligation Authority	2.205	2.673	12.641	0.000	12.641

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833020 / National Airspace System	<b>Item Number / Title [DODIC]:</b> - / National Airspace System (NAS) Plan
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
DAAS/DASR <sup>(†)</sup>		2015	Raytheon / Marlboro, MA	C / FFP	AFLCMC Hanscom AFB	Aug 2017	Jul 2019	1	12.121	Y		Nov 2016
DAAS/DASR <sup>(†)</sup>		2018	Raytheon / Marlboro, MA	C / FFP	AFLCMC Hanscom AFB	Mar 2018	Feb 2020	1	12.121	Y		Jul 2017

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





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**Exhibit P-21, Production Schedule: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 3 **P-1 Line Item Number / Title:** 833020 / National Airspace System **Item Number / Title [DODIC]:** - / National Airspace System (NAS) Plan

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
DAAS/DASR																															
Prior Years Deliveries: 139																															
1		2015	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1		2018	AF	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833020 / National Airspace System
		<b>Item Number / Title [DODIC]:</b> - / National Airspace System (NAS) Plan

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Raytheon - Marlboro, MA	1	4	4	0	0	0	0	0	0	6	23	29

**Remarks:**  
 NAS is an ACAT IC program. The Air Force is the lead Service. With the exception of the AF DASRs for Nellis AFB and Creech AFB, DAAS and DASR equipment deliveries and installation funded under the NAS PE0305137A/F/N are complete. Total number of systems are:

AF - 91 DAASs and 50 DASRs  
 Army - 24 DAASs and 12 DASRs  
 Navy - 47 DAASs and 29 DASRs. Note: Funding for last 3 DAAS procurements and 4 installations and support costs for FY17/beyond have been realigned to Ashore ATC Equipment (BLI 2820).

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

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

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
Equip / BSA 3: Electronics Programs

**P-1 Line Item Number / Title:**  
833030 / Battle Control System - Fixed

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0102326F **Other Related Program Elements:** 0102326F

**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> )	2.704	2.018	5.677	6.415	0.000	6.415	3.033	3.086	3.142	3.199	-	29.274
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	2.704	2.018	5.677	6.415	0.000	6.415	3.033	3.086	3.142	3.199	-	29.274
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>2.704</b>	<b>2.018</b>	<b>5.677</b>	<b>6.415</b>	<b>0.000</b>	<b>6.415</b>	<b>3.033</b>	<b>3.086</b>	<b>3.142</b>	<b>3.199</b>	-	<b>29.274</b>

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

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

**Description:**

BCS-F supports the North American Aerospace Defense Command/ Northern Command (NORAD/NORTHCOM) homeland defense and air sovereignty mission for fixed Air Defense Sectors.

BATTLE CONTROL SYSTEM-FIXED (BCS-F): BCS-F is a Bi-national program with Canada. The BCS-F Program is an AF Homeland Defense battle management command and control system with the capability to integrate data from existing and future civil and military defense surveillance systems into a comprehensive air picture. BCS-F provides tactical communications and data link capabilities with other military and civil systems responsible for planning, directing, coordinating and controlling forces for air surveillance, air defense, and control of sovereign US air space. This integrated air picture enhances the capability to conduct peacetime air sovereignty operations and transition to active air defense operations in the event of aggression. The BCS-F baseline expanded in FY2014 to include the Remote Tactical Air Picture/Remote Work Station (RTAP/RWS). Tech refresh will be required, to prevent system obsolescence, account for new cyber-security requirements and will posture the program to seamlessly integrate future capabilities.

NATIONAL CAPITOL REGION - INTEGRATED AIR DEFENSE SYSTEM (NCR-IADS): NCR-IADS is a post-September 11, 2001 rapidly fielded capability that improves low altitude detection capability in order to prosecute airborne threats to the NCR. NCR-IADS provides ground-based air defense of the National Capitol Region airspace, and provides an integrated air picture, ground air defense weapons, enhanced regional situational awareness and forensic data collection capabilities for the war-fighter mission to protect the NCR. Tech refresh will be required, to prevent system obsolescence, account for new cyber-security requirements and will posture the program to seamlessly integrate future capabilities.

BATTLE CONTROL SYSTEM MODIFICATION: Provides for capital equipment replacement activities at the fixed Air Defense Sector under the modification efforts for Release 3.2.4 and beyond, which include, but are not limited to: infrastructure upgrades, future Diminishing Manufacturing Sources (DMS), and replacement of other equipment that does not qualify for Centralized Asset Management (CAM) funding. Tech refresh will be required, to prevent system obsolescence, account for new cyber-security requirements and will posture the program to seamlessly integrate future capabilities.

**Justification:**

- Battle Control System-Fixed (BCS-F) INC 3 program ended after reaching full deployment in November 2012: No FY2018 funds requested.
- National Capitol Region - Integrated Air Defense System (NCR-IADS): Tech refresh will be required to prevent system obsolescence, account for new cyber- security requirements and will posture the program to seamlessly integrate future capabilities.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833030 / Battle Control System - Fixed
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0102326F	<b>Other Related Program Elements:</b> 0102326F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>- BATTLE CONTROL SYSTEM MODIFICATION UPGRADES: FY2018 funds will support hardware upgrades for G7 servers. Funds will also provide hardware upgrades and spares that do not qualify for Centralized Asset Management (CAM) funding, to include, but not limited to: updated configurations of existing sites to match the modified baseline, and hardware for increased cyber security capability to maintain Authority to Operate (ATO).</p> <p>- PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY2018 funds for PMA costs provide the management, engineering and technical support for the program office.</p> <p>- This funding request supports potential Diminishing Manufacturing Sources (DMS) and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.</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:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
Equip / BSA 3: Electronics Programs

**P-1 Line Item Number / Title:**  
833040 / Theater Air Control Sys Improvements

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207412F **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> )	-	22.710	1.163	23.233	4.970	28.203	20.131	2.901	2.951	7.216	-	85.275
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	22.710	1.163	23.233	4.970	28.203	20.131	2.901	2.951	7.216	-	85.275
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>22.710</b>	<b>1.163</b>	<b>23.233</b>	<b>4.970</b>	<b>28.203</b>	<b>20.131</b>	<b>2.901</b>	<b>2.951</b>	<b>7.216</b>	-	<b>85.275</b>

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

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

**Description:**

PE 0207412F CONTROL AND REPORTING CENTER (CRC)

The Control and Reporting Center (CRC) is a mobile, ground-based theater air control system (TACS) surveillance and battle management command and control (BMC2) element. It consists of facilities, equipment, and people. It is a customizable, modular, transportable, and persistent weapon system employed at the tactical level to support air and surface operations. The CRC is a family of systems which includes: AN/TYQ-23(V)1 Operations Module (OM) (to be replaced by the AN/TYQ-23v5), a low density/high demand (LD/HD), rapidly deployable, ground-based C2 asset that features an automated, computer-based information system to provide operators with a real-time battle space picture necessary to plan, direct, and control tactical air operations and airspace management tasks; AN/TSC-147 Joint Tactical Information Distribution System (JTIDS) Module (JM) (to be replaced by the Link 16 Upgrade using the Multifunctional Information Distribution System Joint Tactical Radio System (MIDS JTRS)); AN/TRC-213/214 Remote Radio Secure Voice System (RRSVS); and the AN/TPS-75 Radar, CRC's organic radar, (to be replaced by the Three-Dimensional Expeditionary Long Range Radar (3DELRR) (PE 0207455)). Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

In order to meet warfighter requirements, incremental updates are required. Phase 1 capabilities include, but are not limited to: JM Link 16 Upgrade kits and DMSMS updates (JM Link 16 Upgrade will provide for crypto modernization and will meet FAA mandated frequency re-mapping requirements, as well as stand up organic software and hardware support); Secret Internet Protocol Router Network (SIPRnet) connectivity in order to fulfill mission requirements; and a Cross Domain Solution (CDS) to update cyber security. Fielding and DMSMS updates and interim contract support will continue through FY21.

Funding for this exhibit contained in PE 0207412F.

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	8.899	1.163	13.685	4.970	18.655	8.575	3.801	3.261	7.216
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.811	0.000	9.548	-	9.548	9.856	1.200	1.400	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs	<b>P-1 Line Item Number / Title:</b> 833040 / Theater Air Control Sys Improvements
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> 0207412F	<b>Other Related Program Elements:</b> N/A
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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	22.710	1.163	23.233	4.970	28.203	18.431	5.001	4.661	7.216

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs **P-1 Line Item Number / Title:** 833040 / Theater Air Control Sys Improvements

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207412F **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	TACSI Mods				- / 0.000	- / 22.710	- / 1.163	- / 4.450	- / 0.000	- / 4.450
P-3a	1 / CRC Phase 1 (Other)				- / -	- / 0.000	- / 0.000	- / 18.783	- / 4.970	- / 23.753
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 22.710</b>	<b>- / 1.163</b>	<b>- / 23.233</b>	<b>- / 4.970</b>	<b>- / 28.203</b>

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	TACSI Mods				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / CRC Phase 1 (Other)				- / -	- / -	- / -	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 20.131</b>	<b>- / 2.901</b>	<b>- / 2.951</b>	<b>- / 7.216</b>	<b>- / -</b>	<b>- / 85.275</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.  
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY18 funding supports:

a. Operations Module (OM) MOD & PHASE 1 capabilities include, but are not limited to, the following: OM Mod installations, Interim Contractor Support (ICS), Diminishing Manufacturing Sources and Material Shortages (DMSMS) support, Cross Domain Solution (CDS), Joint Tactical Information Distribution System Module (JM) Link 16 Upgrade Production Kits, and Secret Internet Protocol Router Network (SIPRnet).

b. SUPPORT: (OM Mod & Phase1) Includes efforts, but are limited to, Software Integrated Laboratory (SIL) activation, and Program Management Administration (PMA) activities in support of the Control and Reporting Center (CRC).

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**Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 3 **P-1 Line Item Number / Title:** 833040 / Theater Air Control Sys Improvements **Aggregated Modification Items Title:** TACSI Mods

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
TYQ23A / AN/TYQ23A OM MOD			-	-	-	-	-	22.710	-	-	1.163	-	-	4.450	-	-	-	-	-	4.450
<i>Secondary Distribution</i>																				
AF				-	-		-	8.899		-	1.163		-	4.450		-	-		-	4.450
AFNG				-	-		-	13.811		-	0.000		-	0.000		-	-		-	0.000
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>22.710</b>	-	-	<b>1.163</b>	-	-	<b>4.450</b>	-	-	<b>0.000</b>	-	-	<b>4.450</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
TYQ23A / AN/TYQ23A OM MOD	OMMOD	Other



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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833040 / Theater Air Control Sys Improvements	<b>Modification Number / Title:</b> 1 / CRC Phase 1
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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	18.783	4.970	23.753	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	18.783	4.970	23.753	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>0.000</b>	<b>18.783</b>	<b>4.970</b>	<b>23.753</b>	-	-	-	-	-	-

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

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

**Description:**

PE 0207412F CONTROL AND REPORTING CENTER (CRC)  
CRC Phase 1

In order to meet warfighter requirements, incremental updates are required. Phase 1 capabilities include, but are not limited to: JM Link 16 Upgrade kits and DMSMS updates (JM Link 16 Upgrade will provide for crypto modernization and will meet FAA mandated frequency re-mapping requirements, as well as stand up organic software and hardware support); Secret Internet Protocol Router Network (SIPRnet) connectivity in order to fulfill mission requirements; and a Cross Domain Solution (CDS) to update cyber security. Fielding and DMSMS updates and interim contract support will continue through FY22.

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	-	-	9.235	4.970	14.205	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	9.548	-	9.548	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>0.000</b>	<b>0.000</b>	<b>18.783</b>	<b>4.970</b>	<b>23.753</b>	-	-	-

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>											<b>Date: May 2017</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3				<b>P-1 Line Item Number / Title:</b> 833040 / Theater Air Control Sys Improvements					<b>Modification Number / Title:</b> 1 / CRC Phase 1			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>					
<b>Models of Systems Affected:</b> CRCPhase1				<b>Modification Type:</b> Other				<b>Related RDT&amp;E PEs:</b>				
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)
<b>Procurement</b>												
<i>Modification Item 1 of 1:</i> CRC Phase 1												
B Kits												
Recurring												
CRC Phase 1:EQUIPMENT Group B (Active)	- / -	- / -	- / -	9 / 7.336	- / -	9 / 7.336	- / -	- / -	- / -	- / -	- / -	- / -
CRC Phase 1:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	12 / 9.548	- / -	12 / 9.548	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 16.884	- / -	- / 16.884	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: CRC Phase 1</i>	- / -	- / -	- / -	- / 16.884	- / -	- / 16.884	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 16.884	- / -	- / 16.884	- / -	- / -	- / -	- / -	- / -	- / -
<b>Support (All Modification Items)</b>												
Type 1 Training	- / -	- / -	- / -	- / 1.899	- / -	- / 1.899	- / -	- / -	- / -	- / -	- / -	- / -
OCO INSTALLATIONS	- / -	- / -	- / -	- / -	- / 14.970	- / 14.970	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 1.899	- / 14.970	- / 16.869	- / -	- / -	- / -	- / -	- / -	- / -
<b>Installation</b>												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	-	0.000	0.000	18.783	4.970	23.753	-	-	-	-	-	-

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force																							<b>Date:</b> May 2017								
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3										<b>P-1 Line Item Number / Title:</b> 833040 / Theater Air Control Sys Improvements										<b>Modification Number / Title:</b> 1 / CRC Phase 1											
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :															<b>MDAP/MAIS Code:</b>																
<b>Modification Item 1 of 1:</b> CRC Phase 1																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Solypsis														Manufacturer Location: Baltimore, MD																	
Administrative Leadtime (in Months): 3														Production Leadtime (in Months): 21																	
<b>Dates</b>		<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>					
Contract Dates										Jan 2018																					
Delivery Dates										Oct 2019																					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Contract Field Team																															
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	5	-	5	6	6	-	-	-	-	-	0	38
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	5	-	5	6	6	-	-	-	-	-	0	38

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
Equip / BSA 3: Electronics Programs

**P-1 Line Item Number / Title:**  
833070 / Weather Observation Forecast

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305111F

**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	21.511	21.667	40.116	0.000	40.116	38.633 <sup>(a)</sup>	21.953 <sup>(b)</sup>	25.535 <sup>(c)</sup>	22.751 <sup>(d)</sup>	-	192.166 <sup>(e)</sup>
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	21.511	21.667	40.116	0.000	40.116	38.633	21.953	25.535	22.751	-	192.166
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>21.511</b>	<b>21.667</b>	<b>40.116</b>	<b>0.000</b>	<b>40.116</b>	<b>38.633</b>	<b>21.953</b>	<b>25.535</b>	<b>22.751</b>	-	<b>192.166</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	0.100	0.100	0.109	-	0.109	-	-	-	-	-	0.309
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

PE 0305111F WEATHER SERVICE

The Weather Observation Forecast procurement line acquires meteorological equipment and ground-based space environment sensing systems supporting the global missions of the Air Force (AF), Army, Special Operations Forces (SOF), combatant commands, and other government agencies. Additionally, these funds procure information system equipment for processing, storing, and disseminating weather information for analysis, forecasting, and mission integration at the strategic, operational, and tactical levels. Fixed and transportable equipment provides observing and forecasting capabilities for home station and deployed locations in support of worldwide Air and Space Expeditionary Forces and Army forces. Weather system technological upgrades provide critical support to modern air and space combat operations. These systems enhance the effectiveness and survivability of AF weapon systems and precision munitions by accurately predicting environmental impacts to optimize mission execution and planning, targeting, weaponeering, and battle damage assessment, as well as space systems operations and effectiveness. Management services costs include Federally Funded Research and Development Centers and Advisory and Assistance Services.

AF Weather Weapon System (AFWWS) activities align under four capability areas: 1) Weather Data Collection, 2) Weather Data Analysis and Dissemination, 3) Weather Forecasting, and 4) Product Tailoring/Warfighter Applications. This alignment ensures an integrated and systems-oriented approach to program management decisions. Development funding for Weather Observation/Forecast is in Program Element (PE) 0305111F, Weather Service.

1. Weather Data Collection: Provides automated atmospheric (a.k.a. terrestrial) and space environmental sensing capabilities at fixed and deployed locations worldwide. The data gathered by multiple sensor systems is exploited for environmental battlespace awareness, characterization, safety of flight, and resource protection. Items A-D (below) were formerly consolidated as "Observing System 21st Century (OS-21)."

A. AN/FMQ-23: Fixed automated weather observing system that collects weather elements and formulates aviation surface weather reports.

B. Next Generation Ionosonde (NEXION): Ionospheric Ground Sensors (IGS) capital equipment replacement consists replacement of unsupported, functionally obsolete, and inoperable NEXION, Ionospheric Scintillation Total Electron Count Observer (ISTO), and other similar equipment. IGS data is transmitted via Non-classified Internet Protocol Router Network (NIPRNET) to ACC/557th Weather Wing and is utilized to show real-time impacts to DoD Satellite Communication (SATCOM) users; and provide geo-location; Global Positioning System (GPS) error and corrections, and comm forecasts. NEXION is a Commercial off-the-shelf (COTS) vertical incidence low-power radar sensor that obtains measurements of the ionosphere from directly overhead in the medium and high frequency radio bands (2-30 MHz). Ionospheric

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305111F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>Scintillation Total Electron Count Observer (ISTO) is a world-wide network of COTS, ground-based, passive, multi-frequency receivers that measure ionospheric scintillation and total electron content in real-time by analyzing various satellite signals. This is not a new start.</p> <p>C. Portable Doppler Radar (PDR): Transportable Doppler weather radar system that provides situational awareness via detection of precipitation and wind patterns in forward areas in support of combat operations. System is COTS. System was previously purchased in FY13. This purchase will replace systems worn out by constant use at deployed locations and for new deployed locations requiring a PDR.</p> <p>2. Weather Data Analysis and Dissemination: Assimilates worldwide sources of atmospheric and space weather data, produces decision-quality information for warfighters, and disseminates those products to intermediate and end users via a net-centric interface ensuring data integrity and continuity of service. Weather data formats and transmission protocols support DoD's Data Services Environment and Meteorological and Oceanographic Community of Interest objectives for integration into warfighter command and control, mission planning, and modeling and simulation systems. Improved analysis of real-time weather information supports DoD's role in transformation of the National Airspace System through the Next Generation Air Transportation System and enhances Air Force energy security plans.</p> <p>A. Weather Data Analysis(WDA)-The Weather Data Analysis (WDA) program of record provides a large-scale data processing, product generation, and presentation system supporting Open Geospatial Consortium (OGC) services architecture and providing capability to ingest, process, store, access, and disseminate meteorological oceanographic (METOC) data. DoD Warfighter Capability/Benefits include the following; centralized Weather Web Service capability, increased availability of weather impacts and products, improved global, regional, and execution forecasts, specific, mission tailored weather data on demand, and finally integrated M2M interfaces that shorten the Combatant Command (COCOM) kill chain. Additionally, WDA provides data storage and network infrastructure supporting production, development, and testing activities and transport of data among multiple nodes and classification levels. Specifically, Enterprise Storage provides storage and the capability to move data between various storage devices. Ingest Services ensure data providers can present their data to designated storage and Dissemination Services ensure data consumers have access to storage and/or the ability to move data to location specified by the consumer. Ingest, Dissemination, and Storage services are provided in Non-classified Internet Protocol Router (NIPR), Secret Internet Protocol Router (SIPR), and Sensitive Compartmented Information (SCI) for Production, Test and Development activities in varying degrees. All aspects of Enterprise Storage are in the approved architecture, bound by best security practice principles, in an effort to meet security requirements, standardize, and eliminate one-off solutions, wherever possible.</p> <p>3. Weather Forecasting: Provides numerical weather prediction, cloud, space environment, and atmospheric constituent (e.g., aerosols) forecast models and other environmental forecast products for worldwide AF, Army, SOF, space, and national intelligence community operational support. Uses high-performance computer servers and high-capacity storage for atmospheric and space weather modeling and worldwide environmental forecast products within DoD Data Center 14866.</p> <p>A. Numerical Weather Modeling (NWM)--Provides atmospheric and space weather modeling and worldwide environmental forecast products supporting military and intelligence operations worldwide.</p> <p>Supports technology insertion/scientific improvements and sustainment to USAF weather analysis and forecasting capability with emphasis on clouds, theater-scale weather, and aerosol/chemical constituents. Provides improvements to specific weather capability gaps to Joint/USAF mission areas, and provides forecast products to create advisories and warnings for DoD resource protection.</p> <p>4. Product Tailoring/Warfighter Applications: Provides timely, local and regional target-scale weather information to operational commanders within a given Area of Responsibility and at tactical levels provides front-line weather information to warfighters in support of combat operations. Supports the 'train as you fight' concept by assuring fixed and deployable systems have a similar performance parameters and user interfaces.</p> <p>A. Joint Environmental Toolkit (JET)--Provides a standard AF Weather forecaster toolkit to ingest weather data and deliver timely, tailorable, precise weather impacts to the warfighter.</p> <p>Funding for this exhibit is contained in PE 0305111F</p> <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</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:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:**  
833070 / Weather Observation Forecast  
Equip / BSA 3: Electronics Programs

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305111F

**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-5	FMQ-23		A		- / -	7 / 2.492	7 / 2.585	- / 1.268	- / -	- / 1.268
P-5	JET		B		- / -	- / 2.593	- / 2.153	- / 0.740	- / -	- / 0.740
P-40a	NEXION/MOK/UAFO/MWS/PDR				- / -	- / 3.000	- / 2.823	- / 12.131	- / -	- / 12.131
P-5	WDA		B		- / -	- / 7.690	- / 10.256	- / 16.148	- / -	- / 16.148
P-40a	WOF				- / 0.000	- / 5.736	- / 3.850	- / 9.829	- / 0.000	- / 9.829
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 21.511</b>	<b>- / 21.667</b>	<b>- / 40.116</b>	<b>- / 0.000</b>	<b>- / 40.116</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.  
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

This program, Weather Observation Forecast P-40A Item Portable Doppler Radar, is a new start.

PE 0305111F WEATHER SERVICE

1. Weather Data Collection:

A. AN/FMQ-23: Ordering period for contract ends FY17. Funds support 6 installations of previously purchased systems during FY18.

B. Next Generation Ionosonde (NEXION): IGS NEXION-ISTO will fund site feasibility surveys and NEXION equipment installations at its Pacific, Caribbean, and Africa sites as well as the replacement of unsupportable, obsolete, and inoperable capital equipment in FY18. Continue program office and other related support activities that may include but are not limited to studies, federally Funded Research and Development Centers (FFRDC), System Engineering and Technical Assistance (SETA), and technical analysis.

C. Portable Doppler Radar (PDR): 11 systems will be acquired.

2. Weather Data Analysis (WDA) and Dissemination:

A. WDA: FY18 funding will procure computer hardware and associated integration software within DoD Data Centers 14866 and 17036 in order to complete WDA Inc 4 Build C and begin Inc 4 Build D as well as Air Force Weather Web Services (AFW-WEBS) Build 2.0. Efforts will expand the WDA database, begin a single services delivery baseline, provide a net-centric delivery of weather data to weather, command and control, and other forces, provide a Cross Domain Solution data filter refresh and provides a robust infrastructure to enable exploitation of environmental data records from DoD and leveraged satellite sources. In addition, it will increase the storage capacity for the new weather satellites and numerical weather modeling data by procuring additional IT infrastructure to support launches during this fiscal year.

3. Weather Forecasting:

A. Numerical Weather Modeling (NWM): FY18 funding will procure computer servers, processors, and storage to refresh the Cloud Depiction and Forecast System Version 2.0 (CDFS II) to support improved worldwide cloud analysis and forecast capability. FY18 funding will also procure a liquid cooling capability to support the next generation high performance computing system scheduled for installation in FY19.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305111F
<b>Line Item MDAP/MAIS Code:</b> N/A		
4. Product Tailoring/Warfighter Applications:  A. Joint Environmental Toolkit (JET): FY18 funding will procure integrated computer hardware and software suites and associated systems interfaces for operational weather support (for DOD Datacenter 18393, 23rd Special Operations Weather Squadron) at fixed and deployed AF, Army, and SOF locations in the continental United States and overseas.  <b>Efforts with funding starting in FY 2019 through FY 2022 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:</b>  <ul style="list-style-type: none"><li>(a) FY 2019 Cost Delta: 38.633 million</li><li>(b) FY 2020 Cost Delta: 21.953 million</li><li>(c) FY 2021 Cost Delta: 25.535 million</li><li>(d) FY 2022 Cost Delta: 22.751 million</li><li>(e) FY Total Cost Delta: 192.166 million</li></ul>		



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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3		<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast
		<b>Item Number / Title [DODIC]:</b> - / FMQ-23

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	7	7	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	2.492	2.585	1.268	-	1.268
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	2.492	2.585	1.268	-	1.268
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>2.492</b>	<b>2.585</b>	<b>1.268</b>	-	<b>1.268</b>

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

Initial Spares (\$ in Millions)	-	-	0.000	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	0.356	0.369	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Hardware End Item Cost</b>																		
Recurring Cost																		
FMQ-23	-	-	-	0.214	7	1.500	0.214	7	1.500	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.500	-	-	1.500	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	1.500	-	-	1.500	-	-	0.000	-	-	-	-	-	0.000
<b>Support - Support End Item Cost</b>																		
TESTING FMQ-23	-	-	-	-	-	0.054	-	-	0.055	-	-	0.045	-	-	-	-	-	0.045
INTERIM CONTRACTOR SUPPORT LABOR FMQ-23	-	-	-	-	-	0.081	-	-	0.112	-	-	0.040	-	-	-	-	-	0.040
DIRECT MISSION SUPPORT CONTRACTOR SERVICES FMQ-23	-	-	-	-	-	0.250	-	-	0.233	-	-	0.503	-	-	-	-	-	0.503
PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES FMQ 23	-	-	-	-	-	0.546	-	-	0.623	-	-	0.330	-	-	-	-	-	0.330
PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENT SERVICES FMQ 23	-	-	-	-	-	0.061	-	-	0.062	-	-	0.350	-	-	-	-	-	0.350
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.992	-	-	1.085	-	-	1.268	-	-	-	-	-	1.268

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>												<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast						<b>Item Number / Title [DODIC]:</b> - / FMQ-23					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	0.356	7	2.492	0.369	7	2.585	-	-	1.268	-	-	-	-	-	1.268

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast	<b>Item Number / Title [DODIC]:</b> - / JET

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	2.593	2.153	0.740	-	0.740
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	2.593	2.153	0.740	-	0.740
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>2.593</b>	<b>2.153</b>	<b>0.740</b>	-	<b>0.740</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware - JET Cost</b>																		
Recurring Cost																		
JET REFRESH EQUIPMENT	-	-	-	1.619	1	1.619	1.143	1	1.143	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.619	-	-	1.143	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - JET Cost</i>	-	-	-	-	-	1.619	-	-	1.143	-	-	-	-	-	-	-	-	-
<b>Support - JET Cost</b>																		
DIRECT MISSION SUPPORT CONTRACTOR SERVICES JET	-	-	-	-	-	0.094	-	-	0.107	-	-	0.109	-	-	-	-	-	0.109
PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES JET	-	-	-	-	-	0.827	-	-	0.845	-	-	0.572	-	-	-	-	-	0.572
PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENT SERVICES JET	-	-	-	-	-	0.053	-	-	0.058	-	-	0.059	-	-	-	-	-	0.059
<i>Subtotal: Support - JET Cost</i>	-	-	-	-	-	0.974	-	-	1.010	-	-	0.740	-	-	-	-	-	0.740
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	2.593	-	-	2.153	-	-	0.740	-	-	-	-	-	0.740

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 3 **P-1 Line Item Number / Title:** 833070 / Weather Observation Forecast **Aggregated Items Title:** NEXION/MOK/UAF0/MWS/PDR

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Hardware End Item Cost</b>																				
NEXION	A		-	-	-	0.250	2	0.500	0.251	2	0.501	0.251	2	0.501	-	-	-	0.251	2	0.501
Portable Doppler Radar	A		-	-	-	-	-	-	-	-	-	0.750	11	8.250	-	-	-	0.750	11	8.250
Mobile Observing Kit (formerly REOS)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Upper Air Follow On	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Hardware - Hardware End Item Cost</b>			-	-	-	-	-	0.500	-	-	0.501	-	-	8.751	-	-	-	-	-	8.751
<b>Support - Support End Item Cost</b>																				
INSTALLATION NEXION	A		-	-	-	1.250	2	2.500	1.161	2	2.322	1.690	2	3.380	-	-	-	1.690	2	3.380
ASSISTANCE AND ADVISORY SERVICE A&AS	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<b>Subtotal: Support - Support End Item Cost</b>			-	-	-	-	-	2.500	-	-	2.322	-	-	3.380	-	-	-	-	-	3.380
<b>Total</b>			-	-	-	-	-	3.000	-	-	2.823	-	-	12.131	-	-	-	-	-	12.131

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

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>						<b>Date: May 2017</b>			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3				<b>P-1 Line Item Number / Title:</b> 833070 / Weather Observation Forecast			<b>Item Number / Title [DODIC]:</b> - / WDA		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B						<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	7.690	10.256	16.148	-	16.148
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	7.690	10.256	16.148	-	16.148
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				-	<b>7.690</b>	<b>10.256</b>	<b>16.148</b>	-	<b>16.148</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)				-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - WDA Cost																		
Non Recurring Cost																		
Hardware-Weather Service Cost	-	-	-	7.278	1	7.278	-	-	9.840	-	-	15.724	-	-	-	-	-	15.724
Subtotal: Non Recurring Cost	-	-	-	-	-	7.278	-	-	9.840	-	-	15.724	-	-	-	-	-	15.724
Subtotal: Hardware - WDA Cost	-	-	-	-	-	7.278	-	-	9.840	-	-	15.724	-	-	-	-	-	15.724
Support - WDA Cost																		
PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES	-	-	-	-	-	0.268	-	-	0.143	-	-	0.146	-	-	-	-	-	0.146
PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENT SERVICES	-	-	-	-	-	0.144	-	-	0.273	-	-	0.278	-	-	-	-	-	0.278
Subtotal: Support - WDA Cost	-	-	-	-	-	0.412	-	-	0.416	-	-	0.424	-	-	-	-	-	0.424
Gross/Weapon System Cost	-	-	-	-	-	7.690	-	-	10.256	-	-	16.148	-	-	-	-	-	16.148

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**Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 3 **P-1 Line Item Number / Title:** 833070 / Weather Observation Forecast **Aggregated Modification Items Title:** WOF

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
WOF2 / Numerical Weather Modeling (NWM)			-	-	0.000	-	-	5.736	-	-	3.850	-	-	9.829	-	-	0.000	-	-	9.829
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>5.736</b>	-	-	<b>3.850</b>	-	-	<b>9.829</b>	-	-	<b>0.000</b>	-	-	<b>9.829</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
WOF2 / Numerical Weather Modeling (NWM)	NWM	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:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
 Equip / BSA 3: Electronics Programs

**P-1 Line Item Number / Title:**  
 833140 / Strategic Command And Control

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0301112F

**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> )	-	286.980	39.803	72.810	0.000	72.810	37.115	18.165	17.966	18.320	-	491.159
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	286.980	39.803	72.810	0.000	72.810	37.115	18.165	17.966	18.320	-	491.159
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>286.980</b>	<b>39.803</b>	<b>72.810</b>	<b>0.000</b>	<b>72.810</b>	<b>37.115</b>	<b>18.165</b>	<b>17.966</b>	<b>18.320</b>	-	<b>491.159</b>

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

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

**Description:**

PE 0101127F B-2 Squadrons - P-40A  
 PE 0101127F B-2 SQUADRONS

B-2 SUPPORT: The B-2 weapon system relies heavily on C2 equipment to meet its operational capability. Funding is used to replace obsolete computer equipment, backbone infrastructure hardware and software, and long haul communications equipment at the Weapon System Support Center (WSSC) Ground Test Facility (GTF), and contractor laboratories. This includes COTS items such as computers, displays, printers, disk and tape drives, software (e.g. computer-aided design (CAD) and analysis software) as well as engineering and logistical support. Funds also procure specialized computers that provide on-line access to B-2 aircraft data and low observable analysis capabilities. Unique B-2 security and communication infrastructure needs are also addressed.

The B-2 Weapon System Support Center (WSSC) Ground Test Facility (GTF), located at Oklahoma Air Logistics Center, Tinker AFB, OK, supports two critical functions: aircraft software development and maintenance/support, plus systems engineering support for the fielded weapon system. Software maintenance fixes to aircraft systems include flight controls, flight management, navigation systems, weapons/armament and the defensive management system. These software fixes are accomplished and tested with the use of the WSSC software development system and integration/test laboratory complex by analyzing and designing fixes to the existing aircraft software. The WSSC GTF also provides engineering support with specialized computer systems that provide online access to B-2 aircraft data. This data consists of items such as engineering and organic low observable analysis, manufacturing, aircraft design data used to help solve technical issues on the B-2. Locations where this data is used include Tinker AFB, Whiteman AFB, Wright-Patterson AFB, Northrop-Grumman in Palmdale, CA and forward operating locations (FOL).

PE 0101313F Strat War Planning System - USSTRATCOM - P-40A  
 PE 0101313F - STRATEGIC WAR PLANNING SYSTEM - USSTRATCOM:

Funding for this program has moved to WSC 833560

PE 0101316F Worldwide Joint Strategic Communications - P-40A  
 PE 0101316F WORLDWIDE JOINT STRATEGIC COMMUNICATIONS

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0301112F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>Emergency Action Messages (EAMs) are highly structured, authenticated messages primarily used in the command and control of nuclear forces. They are disseminated over numerous survivable and non-survivable communication systems including terrestrial and space systems. Programmed funds procure system components, spares, software, and necessary support services for systems such as the Strategic Automated Command and Control System (SACCS), the Defense Injection Reception Emergency Action Message (EAM) C2 Terminals (DIRECT), Aircrew Alerting Communications Electromagnetic Pulse (AAEC), the Strategic Emergency Action Transmission System (SEATS), and the Defense Red Switch Network (DRSN). SACCS is a secure Nuclear Command, Control, and Communications (NC3) system that directly supports National Command Authority (NCA) communications in the command and control of strategic and non-strategic forces. SACCS enables the NCA to disseminate Higher Authority Command Messages, Force Direction Messages, EAMs, and automated ICBM re-targeting data to the USAF's two legs (ICBM and bomber fleets) of the nuclear triad; the reconnaissance, tanker, USAF munitions, and Special Operations communities; and to other Active Duty, Guard, and Reserve DoD users worldwide. DIRECT includes the hardware and software to enable the NCA to transmit nuclear and non-nuclear EAMs and other time-critical messages to strategic and non-strategic forces. The equipment requested is representative of those items capable of providing the required operational capability. The specific items procured may vary depending upon available technology at the time of procurement. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. Development funding for this exhibit contained in PE 0101316F.</p> <p>PE 0208059F Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities) - P-40A US Cyber Command (USCYBERCOM) Cyberspace Situational Awareness (SA) capabilities provides Combatant Commands the ability to detect anomalies within friendly networks, and to link cyber key terrain to cyber and kinetic mission needs and timelines. FY18 is the last year of funding for Cyber SA.</p> <p>PE 0301112F Nuclear Planning and Execution System (NPES) - P-40A NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES): NPES is a National C2 automated information system (AIS) that supports all phases of nuclear conflict. The requirement includes NPES development, test, communication systems and operational server integration with fixed command centers, distributed sites, and mobile platforms. NPES is a joint program, with the Air Force assigned lead service responsibilities. All NPES funding covers the development, test, and operational server suites for fixed command centers, distributive sites and mobile platforms. Funding for this effort is in program element 0301112F.</p> <p>Funding supports the NPES environment suites as well as the 4th Generation Servers for the mobile platform environment. Currently, all sites are operating under an x86 architecture with the airborne platforms still under Solaris/SPARC. The FY17 funding covers a communications equipment refresh for additional ancillary equipment for the operational sites, and PMA contractor support for equipment purchases, sustainment activities, and security certifications. Also, a refresh of the Development/Test displays was necessary due to end-of-life/support. FY18 funding will be necessary to refresh the NPES development environment in the new C2F. This refresh will be accomplished by SPAWAR and well in-house contractor support (PMA). Funding for this effort is in program element 0301112F.</p> <p>In FY17 this program was a NEW START.</p> <p>PE 0303255F Command, Control, Communication, and Computers (C4) - STRATCOM - P-40A PE 0303255F - SERVICE SUPPORT TO USSTRATCOM - C4:</p> <p>5. SERVICE SUPPORT TO USSTRATCOM - C4:</p> <p>a. NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES): NPES is the single, survivable national C2 Automated Information System (AIS) supporting the President, Secretary of Defense, Joint Staff, and nuclear Combatant Commanders in the transition/post phases of nuclear conflict. The requirement includes NPES development, test, and operational server integration with fixed command centers, distributed sites, and mobile platforms (USNORTHCOM's Mobile Consolidated Command Center, Navy E-6B Airborne National Command Post, and Air Force E-4B National Airborne Operations Center). NPES is a joint program with the Air Force assigned lead service responsibilities. Programmed funds support the integration of an upgraded communication interface, new test suites and deployable, ruggedized prototypes for the mobile platform. They also support the technical refresh of all NPES fixed and mobile sites and the migration of them into a Net-Centric environment. NOTE: Beginning in FY18 the NPES Legacy procurement portfolio has moved out of PE 0303255F to PE 0301112F under the Air Force Life Cycle Management Command (AFLCMC)</p>		



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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0301112F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>b. USSTRATCOM C2 SYSTEMS LIFECYCLE HARDWARE MANAGEMENT: This effort provides the C2 infrastructure and hardware to acquire, process, and deliver information, as needed, to enhance decision making for USSTRATCOM and Air Force Space Command (AFSPC). This effort employs a set of underlying information services, technologies, and tools that enable the Commander of USSTRATCOM to achieve the broad operational warfighting capabilities. The effort adds capability as it builds to a final architecture. The cyber architecture is a collection of distributed databases and applications, integrated through a grid of supporting services. This effort was previously referred to as "C2 Modernization" and is Not a new start.</p> <p>c. ANALYSIS AND TARGETING - JOINT WARFARE ANALYSIS CENTER (JWAC): effort provides the hardware that enables the JWAC to develop and recommend strategic technical solutions. JWAC coordinates directly with the staffs of all Unified Commands, Department of Defense (DoD) elements, Combatant Commands, military services, and other government departments and agencies to respond to crises.</p> <p>d. FORCE SURVIVABILITY, ANALYSIS, AND MANAGEMENT SYSTEM (FSAM): FSAM is a decision support system and is designed to provide the commander with Force Management (pre attack) and Force Survival (post attack) information needed to ensure survival of strategic forces. FSAM provides the commander vital decision making data by correlating strategic force status reported by Force Status Reporting (FSR) with missile attack warning information. Processing and Display Subsystem - Migration (PDS-M) will continue to provide the commander with missile attack warning information</p> <p>e. GLOBAL DISTRIBUTED COMMAND AND CONTROL (GDC2): Detailed information is classified and will be provided on a need to know basis. For further information please contact the Strategic C2 Systems Branch (SAF/AQID) at (202) 404-3405.</p> <p>f. USSTRATCOM REPLACEMENT FACILITY FIT-OUT: USSTRATCOM is tasked with the vital roles of strategic deterrence, space operations, and cyberspace operations in our nation's defense. Nuclear, space, and network command and control operations require secure and survivable infrastructure. The facility includes features and capabilities such as secure High-Altitude Electromagnetic Pulse (HEMP) Shielded Command and Control Center, mainframe computer data centers, multiple 24/7 mission operations centers, storage and maintenance areas, labs/workrooms, back-up generators, Uninterruptible Power Source, Technical Control Facility, and Fiber Ring.</p> <p>Funding for this exhibit contained in PE 0303255F.</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:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 833140 / Strategic Command And Control  
**Equip / BSA 3: Electronics Programs**

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0301112F

**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	B-2 Squadrons				- / -	- / 0.493	- / 0.496	- / 0.511	- / 0.000	- / 0.511
P-40a	Worldwide Joint Strategic Communications				- / -	- / 0.248	- / 0.246	- / 6.497	- / 0.000	- / 6.497
P-40a	Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities)				- / -	- / 7.948	- / 7.872	- / 5.961	- / 0.000	- / 5.961
P-40a	Nuclear Planning and Execution System (NPES)				- / -	- / -	- / -	- / 2.330	- / -	- / 2.330
P-40a	Command, Control, Communication, and Computers (C4) - STRATCOM				- / -	- / 278.291	- / 31.189	- / 57.511	- / 0.000	- / 57.511
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 286.980</b>	<b>- / 39.803</b>	<b>- / 72.810</b>	<b>- / 0.000</b>	<b>- / 72.810</b>

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

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

**Justification:**  
 PE 0101127F B-2 Squadrons - P-40A  
 PE 0101127F B-2 SQUADRONS

B-2 SUPPORT: Funding continues the replacement of obsolete computer equipment, backbone infrastructure hardware and software, and long haul communications equipment at the Weapon System Support Center (WSSC) Ground Test Facility (GTF) and contractor software laboratories. Hardware and software purchased include COTS items such as uninterruptible power supplies, computers, displays, printers, disk and tape drives, software and installation and support services.

PE 0101313F Strat War Planning System - USSTRATCOM - P-40A  
 PE 0101313F STRATEGIC WAR PLANNING SYSTEM - USSTRATCOM

Funding for this program has moved to WSC 833560

PE 0101316F Worldwide Joint Strategic Communications - P-40A  
 PE 0101316F WORLDWIDE JOINT STRATEGIC COMMUNICATIONS

FY18 funds will procure replacement system components for SACCS. This includes modified COTS-based electronic equipment such as hard drives, storage devices, servers, and other electronic components that are representative of the most critical components required to allow continued operations. The specific SACCS components procured, e.g. SACCS Desktop Terminal System (SDT), SACCS Portable Terminal (SPT), and Keyboard Send Receive (KSR), may vary depending upon available technology at the time of procurement. FY18 funds (\$6.0M) will procure one DIRECT Terminal in support of EUCOM.

PE 0208059F Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities) - P-40A  
 PE 0208059F US Cyber Command (USCYBERCOM)ACTIVITIES:

FY18 supports fielding Cyberspace Situational Awareness EOA Phase I to three combatant commands (USSOUTHCOM, USSOCOM, PACOM).

PE 0303255F Command, Control, Communication, and Computers (C4) - STRATCOM - P-40A

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0301112F
<b>Line Item MDAP/MAIS Code:</b> N/A		
PE 0303255F SERVICE SUPPORT TO STRATCOM, COMMAND, CONTROL, COMMUNICATION AND COMPUTER (C4):		
<p>a. NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES): FY18 funding continues procurement of hardware for the Fact-of-Life (FoL) update of the NPES operational environment to support the DoD migration into the X86 environment. Hardware procurement will also support mobile platforms as we introduce X86 blades to the platform server configuration. NOTE: Beginning in FY18 the NPES Legacy procurement portfolio has moved out of PE 0303255F to PE 0301112F under the Air Force Life Cycle Management Command (AFLCMC).</p> <p>b. USSTRATCOM C2 SYSTEMS LIFECYCLE HARDWARE MANAGEMENT: FY 18 continues the phased update of the full C2 LAN Back Up and Recovery System, update of the Mass Storage appliances on the C2 LAN and the Top Secret LAN, life-cycle replacement of C2 application and database servers, and other ongoing activities.</p> <p>c. ANALYSIS AND TARGETING - JOINT WARFARE ANALYSIS CENTER (JWAC): FY18 funding will continue life cycle replacement of critical analytical software and hardware for strategic solutions</p> <p>d. FORCE SURVIVABILITY, ANALYSIS, AND MANAGEMENT (FSAM). FY18 funding continues hardware/software updates for FSAM as well as the decision making tools of Force Status Readiness and Force Protection applications that feed FSAM.</p> <p>e. GLOBAL DISTRIBUTED COMMAND AND CONTROL (GDC2): Detailed information is classified and will be provided on a need to know basis. For further information please contact the Strategic C2 Systems Branch (SAF/AQID) at (202) 404-3405.</p> <p>f. USSTRATCOM REPLACEMENT FACILITY FIT-OUT: USSTRATCOM Replacement Facility: FY18 will focus on major areas: 1) Complete the procurement of Audio Visual/VTC hardware, end-user client devices; and, 2) Complete the transition of the Technical Control Facility; and, Command and Control mission systems hardware, software.</p> <p>Items requested in FY18 are representative of items to be procured. Specific items procured during execution may change based on commercial availability and critical equipment needed to support current mission requirements.</p>		

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 3 **P-1 Line Item Number / Title:** 833140 / Strategic Command And Control **Aggregated Items Title:** B-2 Squadrons

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
B-2 Weapon System Support Center (WSSC) Hardware	A		-	-	-	-	-	0.493	-	-	0.496	-	-	0.511	-	-	0.000	-	-	0.511
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.493</b>	-	-	<b>0.496</b>	-	-	<b>0.511</b>	-	-	<b>0.000</b>	-	-	<b>0.511</b>
<b>Total</b>			-	-	-	-	-	<b>0.493</b>	-	-	<b>0.496</b>	-	-	<b>0.511</b>	-	-	<b>0.000</b>	-	-	<b>0.511</b>

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control						<b>Aggregated Items Title:</b> Worldwide Joint Strategic Communications							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Defense Injection/ Reception Emergency Action Message Command and Control Terminal (DIRECT) System	A		-	-	-	-	-	-	-	-	-	6.000	1	6.000	-	-	0.000	6.000	1	6.000
Strategic Automated Command Control Systems (SACCS)	A		-	-	-	0.004	62	0.248	0.004	62	0.246	0.007	75	0.497	-	-	0.000	0.007	75	0.497
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.248</b>	-	-	<b>0.246</b>	-	-	<b>6.497</b>	-	-	<b>0.000</b>	-	-	<b>6.497</b>
<b>Total</b>			-	-	-	-	-	<b>0.248</b>	-	-	<b>0.246</b>	-	-	<b>6.497</b>	-	-	<b>0.000</b>	-	-	<b>6.497</b>

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

**Remarks:**  
 FY18 funds (\$6.0M) will procure one DIRECT Terminal in support of EUCOM.  
 Misc. COTS software and hardware items are purchased for all ISPAN programs through the centrally managed office at USSTRATCOM ISPAN Enterprise Systems Branch AFLCMC HBCC.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control						<b>Aggregated Items Title:</b> Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities)							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Service Support to Other Core Missions - USSTRATCOM (CYBERCOM Activities)	A		-	-	-	-	-	7.948	7.872	1	7.872	-	-	5.961	-	-	0.000	-	-	5.961
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>7.948</b>	-	-	<b>7.872</b>	-	-	<b>5.961</b>	-	-	<b>0.000</b>	-	-	<b>5.961</b>
<b>Total</b>			-	-	-	-	-	<b>7.948</b>	-	-	<b>7.872</b>	-	-	<b>5.961</b>	-	-	<b>0.000</b>	-	-	<b>5.961</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Aggregated Items Title:</b> Nuclear Planning and Execution System (NPES)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Nuclear Planning and Execution System (PE 31112)</b>																				
Ruggedized Equipment, E-4B, E-6B, (includes GFE, NRE, Installs, etc.)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operational Sites Refresh -- Turn-Key Systems (SUN/Windows Servers, Storage, Clients, etc)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Test-System Refresh (SUN/Windows Servers, Storage, Clients, etc)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEV-System Refresh (X86 Blade Servers, Storage, Switches, Clients, etc)	A		-	-	-	-	-	-	-	-	-	1.980	1	1.980	-	-	-	1.980	1	1.980
<b>Subtotal: Nuclear Planning and Execution System (PE 31112)</b>			-	-	-	-	-	-	-	-	-	-	-	1.980	-	-	-	-	-	1.980
<b>Program Management Administration</b>																				
Systems Operations	B		-	-	-	-	-	-	-	-	-	0.175	2	0.350	-	-	-	0.175	2	0.350
<b>Subtotal: Program Management Administration</b>			-	-	-	-	-	-	-	-	-	-	-	0.350	-	-	-	-	-	0.350
<b>Total</b>			-	-	-	-	-	-	-	-	-	-	-	2.330	-	-	-	-	-	2.330

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date:</b> May 2017				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control						<b>Aggregated Items Title:</b> Command, Control, Communication, and Computers (C4) - STRATCOM							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total			
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
<b>Uncategorized</b>																					
NPES - COMM SYSTEM (SMART NEXT Turn-Key System)	A		-	-	-	-	-	-	0.300	7	2.100	-	-	-	-	-	-	-	-	-	
NPES - RUGGEDIZED EQUIPMENT, E-4B, E-6B	A		-	-	-	0.400	5	2.000	-	-	-	-	-	-	-	-	-	-	-	-	
NPES - Operational Site Refresh	A		-	-	-	-	-	-	0.292	1	0.292	-	-	-	-	-	-	-	-	-	
C2 LAN Infrastructure (C2 Modernization)	A		-	-	-	-	-	-	3.677	1	3.677	-	-	-	-	-	-	-	-	-	
Mass Storage Devices [Secret, TS], (C2 Modernization)	A		-	-	-	-	-	-	3.714	1	3.714	-	-	-	-	-	-	-	-	-	
Net-Centricity Migration Expansion (C2 Modernization)	A		-	-	-	0.293	1	0.293	-	-	-	-	-	-	-	-	-	-	-	-	
SUN/Windows servers, storage, clients etc (C2 Modernization)	A		-	-	-	0.500	7	3.500	-	-	-	1.053	1	1.053	-	-	-	-	1.053	1	1.053
Global Operations Center (GOC) Hardware, (C2 Modernization)	A		-	-	-	2.746	1	2.746	-	-	-	2.793	1	2.793	-	-	-	-	2.793	1	2.793
Miscellaneous Infrastructure and LAN Hardware, [Classified], (C2 Modernization)	A		-	-	-	2.832	1	2.832	-	-	-	2.880	1	2.880	-	-	-	-	2.880	1	2.880
Subordinate Organizations System Hardware, [Classified], (C2 Modernization)	A		-	-	-	2.550	1	2.550	-	-	-	-	-	0.000	-	-	-	-	-	-	0.000
Analysis and Targeting Systems, (C2 Modernization)	A		-	-	-	0.085	1	0.085	0.086	1	0.086	0.081	1	0.081	-	-	-	-	0.081	1	0.081
FSAM - Modernization Procurement	A		-	-	-	1.337	1	1.337	2.136	1	2.136	2.061	1	2.061	-	-	-	-	2.061	1	2.061
Global Distributed Command and Control (GDC2)	A		-	-	-	-	-	-	1.746	1	1.746	1.772	1	1.772	-	-	-	-	1.772	1	1.772
Node (s)	A		-	-	-	14.167	1	14.167	-	-	-	-	-	-	-	-	-	-	-	-	-



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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3						<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control									<b>Aggregated Items Title:</b> Command, Control, Communication, and Computers (C4) - STRATCOM				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
New Bldg Fit Out - Fiber Ring	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Bldg Fit Out - Transition Infrastructure	A		-	-	-	1.797	1	1.797	-	-	-	-	-	-	-	-	-	-	-	
New Bldg Fit Out - Premise Wiring	A		-	-	-	35.363	1	35.363	2.289	1	2.289	-	-	-	-	-	-	-	-	
New Bldg Fit Out - Electronic Security Systems	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Bldg Fit Out - Network / Communications systems	A		-	-	-	63.595	1	63.595	4.211	1	4.211	4.322	1	4.322	-	-	-	4.322	1	4.322
New Bldg Fit Out - Server / Client / Data systems hardware	A		-	-	-	72.668	1	72.668	3.672	1	3.672	-	-	-	-	-	-	-	-	
New Bldg Fit Out - Audio Visual / VTC systems hardware	A		-	-	-	56.211	1	56.211	4.898	1	4.898	39.199	1	39.199	-	-	-	39.199	1	39.199
New Bldg Fit Out - Mission Systems hardware	A		-	-	-	10.023	1	10.023	1.650	1	1.650	0.350	1	0.350	-	-	-	0.350	1	0.350
New Bldg Fit Out - Technical Control Facility hardware / Relocation	A		-	-	-	9.124	1	9.124	0.718	1	0.718	3.000	1	3.000	-	-	0.000	3.000	1	3.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>278.291</b>	-	-	<b>31.189</b>	-	-	<b>57.511</b>	-	-	<b>0.000</b>	-	-	<b>57.511</b>
<b>Total</b>			-	-	-	-	-	<b>278.291</b>	-	-	<b>31.189</b>	-	-	<b>57.511</b>	-	-	<b>0.000</b>	-	-	<b>57.511</b>

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

**Remarks:**  
Beginning in FY18 the NPES Legacy procurement portfolio has moved out of PE 0303255F to PE 0301112F under the Air Force Life Cycle Management Command (AFLCMC)

C2 Facility Fit-Out is broken down into 9 Major Categories:

Fiber Ring, Transition Infrastructure, Premise Wiring, Electronic Security Systems, Network / Communications Systems, Server / Client / Data Systems, Audio Visual / Video Teleconferencing Systems, Missions Systems, Technical Control Facility.

There are thousands of parts and pieces to satisfy requirements...for example:

Fiber Ring: Copper Cable (miles), Fiber Optic Cable (miles)

Premise Wiring: Equipment racks (2000+), Fiber Optic Cable (miles), CAT-6A Cable (miles), MUTOAs (6000+), Patch Cabling (thousands)

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 3	<b>P-1 Line Item Number / Title:</b> 833140 / Strategic Command And Control	<b>Aggregated Items Title:</b> Command, Control, Communication, and Computers (C4) - STRATCOM
Network/Communications: Crypto Gear, Storage Chassis, IA Devices, Additional Cabling, Servers, Licensing, Access Layer Switches, Network Management Software, Intrusion Prevention Systems, Proxy System, Log Reduction Systems, Blade Server Enclosures, Multi-Control Units (MCUs), VoIP Instruments, Call Managers		
Server/Client/Data Hardware: Client Machines, Printers, Devices, End-user Licensing, Additional Storage, Additional Server Blades, Cabling, Connectors		
Audio Visual/VTC Hardware: AV/VTC Bridges, Audio/Video Switching		
Mission Systems Hardware: Servers, Storage Devices, Client Machines, Guards, Firewalls, Antennas, Bridges, Gateways, Gatekeepers, Border Controller		
Tech Control Facility Relocation: Circuits, Cabling, Specialized Racks, Patch Fields		

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
Equip / BSA 3: Electronics Programs

**P-1 Line Item Number / Title:**  
833160 / Cheyenne Mountain Complex

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0305903F, 0305906F **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> )	-	36.186	24.618	9.864	0.000	9.864	10.042	10.221	10.404	10.591	-	111.926
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	36.186	24.618	9.864	0.000	9.864	10.042	10.221	10.404	10.591	-	111.926
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>36.186</b>	<b>24.618</b>	<b>9.864</b>	<b>0.000</b>	<b>9.864</b>	<b>10.042</b>	<b>10.221</b>	<b>10.404</b>	<b>10.591</b>	-	<b>111.926</b>

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

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

**Description:**

Cheyenne Mountain Complex (CMC) systems provide real-time ballistic missile warning, air defense, force management, battle management and command, control and communications for the North American Air Defense (NORAD) missions.

PE 0305903F - COCOM MOBILE CONSOLIDATED COMMAND CENTERS (MCCC)

Modification for the COMBATANT COMMANDER (COCOM), MOBILE CONSOLIDATED COMMAND CENTER (MCCC): The COCOM's MCCC provides continuity of command capabilities to accomplish directed missions in the event primary command and control facilities are incapacitated. It provides a survivable and endurable command, control, communications, computers, and intelligence (C4I) capability accomplishing directed COCOM missions. The MCCC provides C4I for Homeland Support/Homeland Defense HLS/HLD) and U.S. Northern Command (USNORTHCOM).

PE 0305906F - NCMC - ITW/AA SYSTEM

Modification for NORAD CHEYENNE MOUNTAIN COMPLEX-INTEGRATED TACTICAL WARNING/ATTACK ASSESSMENT(NCMC-ITW/AA) SYSTEMS: These systems integrate and correlate missile launch, space object orbit, and air surveillance information to assess the nature of an enemy attack and issue warnings to the President of the United States, the Prime Minister of Canada, United States Secretary of Defense and warfighting Combatant Commanders (C2). Funding procures replacement for reliability and maintainability of the information systems hardware and associated systems software for Cheyenne Mountain operating locations to include legacy space defense systems at Vandenberg AFB, CA and remote interfacing sites essential for executing US Strategic Command, NORAD, Joint Force Component Commander (JFCC) space missions exercised in the Cheyenne Mountain Complex (CMC), Joint Space Program Operations Center (JSpOC), and forward operating locations.

**Justification:**

PE 0305903F - COCOM MOBILE CONSOLIDATED COMMAND CENTERS (MCCC)

The COCOM's MCCC provides a survivable and endurable command, control, communications, computers, intelligence (C4I), reliability and maintainability while accomplishing directed COCOM missions. The MCCC provides C4I for Homeland Security Support/Homeland Defense (HLS/HLD) and USNORTHCOM missions. MCCC modification efforts funded in this line include upgrading MCCC shelters and incorporating additional C4I system capabilities via mobile Information Technology and Communication Upgrade projects; ensuring the platform's ability to rapidly deploy, re-constitute and operate. In FY18, this

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833160 / Cheyenne Mountain Complex
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0305903F, 0305906F	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>line will fund the MCCC Block 01 modifications which include but are not limited to: 1) Communication system upgrade; 2) Mission and support shelters upgrade; 3) Cyber security modernization, 4) Network upgrades; and 5) Environmental and Filtration system upgrade along with and including initial spares and test facility updates required by the fielding of these modification. Due to the limited spares demand rates, and indefinite system lifespan, Life of Type buys may be required to support weapons system modifications across the active MCCC Block Programs. Additionally, FY18 funding will support Program Management Administration (PMA) support for the MCCC Block 00 Program initiated in FY17, the MCCC Block 01 program initiated with FY18 funding, and finally the planning efforts for the MCCC Block 02 program. PMA includes acquisition support/strategy, engineering and technical expertise associated with procurement, support services, test, travel and other program related costs associated with install of procurement equipment. Funding for this effort is in program element 0305903F and is funded IAW full funding policy.</p> <p>PE 0305906F - NCMC - ITW/AA SYSTEM</p> <p>Funding procures replacement for reliability and maintainability of the information systems hardware and associated systems software for NCMC/ITW/AA system. This system is a C2 enterprise of various critical information technology systems comprised of communications processors, network devices, C2 services, workstations, databases, and intelligence sources that are integrated to provide the means to assess an enemy attack. In FY18, this line will fund NCMC-ITW/AA Block 01 modifications, which include but are not limited to the two major components: 1) Mission systems (air, missile, and space) upgrades include all subsystems within the sensor-to-operator messaging string message-processing, database, communications processing systems, C2 services, mission operations management systems, and workstations. 2). Network/infrastructure systems for ITW/AA and Space include but are not limited to those sub-systems that provide the fabric for the mission systems to operate within operational and security parameters such as system operations servers, security servers, backup systems, networks and network infrastructure components, support systems software and independent test systems. Additionally, FY18 funding will support continuation of Program Management Administration (PMA) support for the NCMC-ITW/AA Block 00 program in FY17, the NCMC-ITW/AA Block 01 program initiated with FY18 funding and finally the planning efforts for the NCMC-ITW/AA Block 02 program. PMA includes acquisition support/strategy, engineering and technical expertise associated with procurement, support services, test, travel and other program related costs associated with install of procurement equipment. Funding for this effort is in program element 0C030906F and is funded IAW full funding policy.</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:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs **P-1 Line Item Number / Title:** 833170 / Mission Planning Systems

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0208006F

**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> )	-	14.456	15.868	15.486	0.000	15.486	15.752	16.031	16.321	16.617	-	110.531
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	14.456	15.868	15.486	0.000	15.486	15.752	16.031	16.321	16.617	-	110.531
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>14.456</b>	<b>15.868</b>	<b>15.486</b>	<b>0.000</b>	<b>15.486</b>	<b>15.752</b>	<b>16.031</b>	<b>16.321</b>	<b>16.617</b>	-	<b>110.531</b>

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

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

**Description:**

The Mission Planning Systems (MPS) Hardware program procures commercial-off-the-shelf (COTS) computing systems hardware and hardware-related requirements for Air Force active duty, Guard, and Reserve units worldwide. These computing systems provide a flexible, configurable and cost-effective range of increasing capability to meet the continuum of peacetime, contingency and wartime planning requirements. These electronic systems provide a mission data management system that efficiently interfaces with other planning systems as well as aircraft avionics. These computing systems are procured on a four-year life cycle replacement to effectively address and/or alleviate Diminishing Manufacturing Sources (DMS) issues. Once procured the systems are centrally managed for all applicable AF platforms and their operational users, including Guard and Reserve Forces.

The program continues the procurement of COTS computing hardware and other devices associated with the Mission Planning Systems program. It also continues the procurement of all capital replacement hardware used in conjunction with MPS and other pre-, post-, and in-flight mission planning software. Together this hardware and associated software enables aircrews and other planners to plan the safest, most effective operational missions in a timely manner.

The program procures COTS based Personal Computing (PC) Systems to include (but are not limited to) desktop computers, laptops, personal digital assistants (PDA), tablet PCs, color printers, storage devices, displays, other peripherals, software and software licenses, and other support services, that together, allow the user to produce the necessary charts and other mission-specific products required to effectively perform a variety of military missions.

A variety of information technology, navigation and communications hardware and software packages will also be procured each year to meet the varied needs of mission planning platforms and training units. This PC-based capability, when integrated with corresponding mission planning software releases, provides a portable, tailorable, net-centric system for aircrews to complete the mission planning function. The procured items also enable aircrews to effectively utilize software that has been modified to stay in sync with new capabilities incorporated into select platforms via their Operational Flight Program (OFP) update process. They also provide a mission planning capability for precision/autonomous guided munitions and can also be networked with other Theater Battle Management (TBM) systems to further tailor a platform's mission planning environment.

The MPS procurement strategy leverages the rapid increase in PC-based technology to enable high-end computing on increasingly smaller and more mission-oriented devices. The programs procure UNIX and PC-based systems that provide flexible, configurable, and cost effective solutions that increase tactical and strategic capabilities to meet the continuum of operations ranging from peacetime contingencies to conventional and nuclear wartime mission planning requirements. Each segment of the program has shifted its hardware emphasis from a limited number of large, complex planning systems to more compact and personal planning devices that can be tailored to satisfy user needs. This adjustment is a practical and efficient way to meet technology-driven challenges such as the evolutionary nature of mission planning

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833170 / Mission Planning Systems
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0208006F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>(that necessitates recurrent hardware changes to meet overall system requirements) and advances in COTS technology that makes available new capabilities (which may lower component costs or address component obsolescence). It is also a more effective way to address changes in the number, type, and deployment of aircraft/weapons that force changes in the number of UNIX and PC-based mission planning computers and their concept of operations.</p> <p>1. MISSION PLANNING SYSTEMS (MPS) HARDWARE: This acquisition is a continuation of procurement efforts to provide MPS-related hardware for Air Force platforms. The program will provide a suite of COTS-based mission planning hardware and software systems that can be integrated with USAF Command, Control, Communications, Computers, and Intelligence (C4I) systems for the operation of USAF aircraft (e.g. F-22, B-1, F-16, F-15, RC/OC-135, E-3, E-4, E-8, C-130, HC-130, EC-130, HH-60, KC-135, KC-46, C-5, KC-10, C-17, A-10, F-35, Global Hawk, U-2, B-52, B-2, UH-1, T-38) and the support of USAF training requirements. MPS allows aircrews to electronically receive tasking orders, intelligence information, target coordinates, imagery and other information. This information is then used to organize and prepare flight (including equipment and personnel airdrop) and weapons delivery planning data (e.g., maps, charts, imagery, flight logs, radar predications, and navigation databases) that is electronically transferred to aircraft and/or precision-guided weapons. MPS increases the combat effectiveness of Air Force aerial assets (including unmanned air vehicles, conventional and low-observable aircraft, and weapons) and Army guided delivery systems by supporting the use of sophisticated avionics and precision/autonomous guided munitions. It helps to increase wartime sortie rates while improving aircrew and aircraft survivability and aircrew readiness.</p> <p>2. PRECISION AERIAL DELIVERY SYSTEM (PADS): PADS provides the capability for direct delivery of cargo and equipment through high altitude, precision airdrops (principally with C-17 and C-130 aircraft). Currently it consists of the Joint Precision Airdrop System (JPADS) acquisition effort. JPADS is a collaborative effort with the Army, USMC, and other agencies to provide aviators the ability to accurately airdrop payloads (including supplies/equipment and personnel) to units in the field from altitudes beyond the reach of some surface-to-air weaponry. This portion of the program procures COTS-based computing hardware, support services and aerial delivery systems to enable completion of pre and in-flight mission planning functions as well as aerial delivery proficiency training in and with operational units.</p> <p>Market surveys and analysis of COTS products will be used to support procurement decisions. Funding for this exhibit is in Program Element (PE) 0208006F.</p> <p>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.</p>		
<p><b>Justification:</b> FY18 funding will continue procurement of a variety of computers, software, and electronic equipment to support pre-, post-, and in-flight mission planning tasks for a number of Air Force platforms. Procured hardware and other items will support and enable completion of mission planning efforts using legacy planning tools (e.g. Unix-MPS and the Portable Flight Planning Software (PFPS)) as well as the Joint Mission Planning Systems (JMPS). The hardware will also accommodate planning system updates based upon new capability incorporation via individual platform Operational Flight Programs (OFFPs). All items are centrally managed and distributed by the MPS System Support Facility. The following kinds of equipment and mission areas will be supported:</p> <p>1. MPS HARDWARE: FY18 funding will continue procurement of COTS-based hardware, software, and support services to include (but is not limited to) desktop computers, laptops, tablet PCs, data storage devices, PDAs, monitors, software applications, warranties, and other electronic computing components. These assets provide a portable, tailorable, network-capable system that can be integrated with MPS software to provide basic mission planning capability and full interoperability with TBM systems. Components can also be networked with legacy UNIX Systems to further tailor a platform's mission planning environment. The program will procure hardware and software items, warranties, other services, and up to a 15% contingency inventory (based on the overall number of items being procured) for the following mission planning operational users:</p> <p>Air Combat Command (ACC): F-15, F-15 C, F-16 Block 15/25/30/40/50, F-22,F-35, E-3, E-4, E-8,RC-135, HH-60, HC-130, EC-130, U-2, Global Hawk</p> <p>Air Mobility Command (AMC): C-5, C-17, C-130, KC-10, KC-135, KC-46</p> <p>Air Force Global Strike Command (AFGSC): B-2, B-52, B-1, UH-1</p> <p>Air Education and Training Command (AETC): T-38</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833170 / Mission Planning Systems
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0208006F
<b>Line Item MDAP/MAIS Code:</b> N/A		
Funding for this effort is in program element 0208006F.		
<p>2. PRECISION AERIAL DELIVERY SYSTEMS (PADS): FY18 funding will continue the procurement of Joint Precision Airdrop Systems (JPADS) hardware, software, LRU support equipment for functional checkout (i.e. Automatic Test Equipment or ATE) and other related items. Components include, but are not limited to: guided delivery vehicles (e.g. ultralight, 2K, 10K); Pressure Tolerant Disk Drives (PTDD) [including solid state and pressure sealed disk drives]; precision-guided airdrop training systems; portable data storage units, engineering/technical support, equipment storage and associated hardware warranties. Funding for this effort is in program element 0208006F.</p> <p>3. PROGRAM MANAGEMENT ADMINISTRATION: FY18 funding provides program office, engineering, and other contractor support for the Mission Planning Systems (MPS) and Joint Precision Airdrop Systems (JPADS) procurement program.</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:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs

**P-1 Line Item Number / Title:**  
 833440 / Drug Interdiction Spt

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0201110F

**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> )	-	9.797	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	9.797
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	9.797	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	9.797
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>9.797</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>9.797</b>

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

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

**Description:**

Funding supports drug interdiction and counter-drug activities.

Funding for this exhibit contained in PE 0201110F.

**Justification:**

No FY18 funds requested.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
Equip / BSA 3: Electronics Programs

**P-1 Line Item Number / Title:**  
833560 / Integrated Strat Plan & Analy Network (ISPAN)

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

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

Resource Summary	Prior Years	FY 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> )	-	9.597	9.331	9.187	0.000	9.187	9.068	9.228	9.395	9.563	-	65.369
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	9.597	9.331	9.187	0.000	9.187	9.068	9.228	9.395	9.563	-	65.369
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>9.597</b>	<b>9.331</b>	<b>9.187</b>	<b>0.000</b>	<b>9.187</b>	<b>9.068</b>	<b>9.228</b>	<b>9.395</b>	<b>9.563</b>	-	<b>65.369</b>

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

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

**Description:**

INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN): The mission of USSTRATCOM is to conduct global operations in coordination with other Combatant Commands, Services, and appropriate U.S. Government agencies to deter and detect strategic attacks against the U.S. and its allies. It provides full-spectrum global strike, and coordinated space, missile defense, and information operations capabilities to meet both deterrent and decisive national security objectives. USSTRATCOM will also provide operational space support, integrated missile defense, global command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. ISPAN enables USSTRATCOM to carry out these missions. It is one of DoD's most complex classified computer systems and the only national force level planning system.

ISPAN enables an effects-based approach to planning and operations; cross domain information sharing; and serves multiple planning environments. It develops, verifies, and produces Operational Plan (OPLAN) 8010. It also supports the USSTRATCOM family of plans construct and current Concept of Operations. The system performs tasks ranging from creating and running Courses of Action (COAs) on threat scenarios to providing data for developing bomber aircraft crew strike mission data in digital and hard copy formats. It includes automated data processing equipment (ADPE), multiple networks, unique processes and procedures, software, training, associated deployable and distributed data processing nodes, a test/development environment, and subsidiary systems. The system will migrate to the new USSTRATCOM Command and Control Facility.

The ISPAN program is comprised of two independent but complementary planning systems; the Mission Planning and Analysis System (MPAS) and the Global Adaptive Planning Collaborative Information Environment (GAP-CIE).

MPAS is an automated information system to support Global Strike nuclear and conventional target development and weaponeering. MPAS includes Mission Planning, Analysis, and Decision Support tools and an Enterprise Database to sustain and support nuclear and conventional strategic war planning.

GAP-CIE provides web-enabled adaptive planning, rapid distributed Course of Action (COA) development and global situational awareness supporting both contingency and crisis planners. ISPAN uses a four-year life-cycle replacement plan to procure required Commercial Off-The-Shelf (COTS) hardware (e.g. servers, storage devices, workstations, peripherals and other network components).

In some instances the hardware must be combined with commercially available software to form unique planning environments. The programs life cycle replacement plan for hardware follows industry standards and is used to eliminate the peaks and valleys associated with maintaining compatibility with the fast moving COTS hardware technology improvement cycle. It also allows the program to better utilize existing

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		<b>P-1 Line Item Number / Title:</b> 833560 / Integrated Strat Plan & Analy Network (ISPAN)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>manpower to install and configure the hardware systems to provide an incremental and efficient replacement of critical infrastructure components as they become obsolete. Hardware and software procured within the program is used to support all ISPAN program increments.</p> <p>Funding for this exhibit is contained in Program Element 0101313F.</p>		
<p><b>Justification:</b>  FY18 funding continues the life-cycle procurement of commercial-based hardware and software components for the ISPAN mission system which consists of the Mission Planning and Analysis System (MPAS) and the Global Adaptive Planning Collaborative Information Environment (GAP CIE) efforts. Funding procures mission system infrastructure, architecture, and related support components. This includes COTS-based hardware and software for an operational capability lab environment to certify ISPAN applications for operational use. Funding also provides a secure cross-domain security solution capability to enable automated data transfers between multi-level networks supporting planners worldwide on multiple enclaves. It allows for the procurement of items such as (but are not limited to) application servers, switches, storage area network (SAN), backup and recovery systems, guard solution software and other articles that will provide a secure Cross Domain Security Solution (CDSS) capability, and the life-cycle replacement of Government Furnished Equipment (GFE) at development contractor sites. Funding also provides for procurement of virtualization technology environments and distributed operations capability to support joint warfighters across geographically separated locations. Finally, funding provides for the initial migration of the ISPAN mission system to the new USSTRATCOM Command and Control Facility.</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:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834010 / General Information Technology

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804721F, 0804752F, 0804771F, 0901279F, 0901299F, 1203173F, 1203174F

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

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	31.952	41.779	51.826	0.000	51.826	49.231 <sup>(a)</sup>	41.179 <sup>(b)</sup>	39.567 <sup>(c)</sup>	38.505 <sup>(d)</sup>	-	294.039 <sup>(e)</sup>
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	31.952	41.779	51.826	0.000	51.826	49.231	41.179	39.567	38.505	-	294.039
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>31.952</b>	<b>41.779</b>	<b>51.826</b>	<b>0.000</b>	<b>51.826</b>	<b>49.231</b>	<b>41.179</b>	<b>39.567</b>	<b>38.505</b>	<b>-</b>	<b>294.039</b>

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

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

**Description:**

PE 0201130F US Northern Command Communications - P-40A

a. NORAD AND NORTHCOM INTEROPERABLE COMMUNICATIONS: This includes mission specific communications enhancements to support extension of Public Switched Telephone Network (PSTN) and Public Internet to Civil Authorities from the DOD Satellite Teleports either directly to the Civil Authorities' communications systems or through DOD communications systems. This program combines the Interoperable Communications and Joint Tactical Radio System (JTRS) compliant radio handsets to enable the Defense Support of Civil Authorities mission.

b. DEPLOYABLE COMMUNICATION CAPABILITY SYSTEM LIFE CYCLE MANAGEMENT: The USNORTHCOM Deployable Communication Fleet consists of Emergency Response Vehicles (ERVs) Mobile Communications Platforms (MCPs), Rapid Response Kits (RRK) and fly-away communications systems, small enough to be flown on commercial airlines to a nationally declared disaster. (NC J6 DCCS combined the previously approved and funded Cellular System Technical Refresh and Emergency Response Communications System into one consolidated effort)

c. EARLY WARNING RADAR (EWR) COMMUNICATIONS EQUIPMENT: The AVTEC NexGen panels are used to support the Hawaii Regional Air Operations Center (HIRAOC). The NORAD EWR Communications Equipment provide equipment to facilitate dual operation cutovers, secure/non-secure communications for a single communications network allowing clear and secure, real-time, line of sight and beyond line of sight NORAD wide command and control of airborne and ground elements.

PE 0207277F 0207277F Eagle Vision - P-40A

Family of systems providing high impact, quick reaction capabilities to warfighters for mission planning, rehearsal, visualization, and intelligence gathering purposes. Program components include: Eagle Vision, DoD's only worldwide deployable commercial imagery ground station capability, and ISR innovations, rapid prototyping, operational evaluation and fielding of short notice, high payoff capabilities addressing immediate caps and/or shortfalls identified by warfighting activities. Eagle Vision provides direct downlink commercial imagery to operational commanders for mission support purposes.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the armed forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

PE 0207448F C2ISR Tactical Data Link - P-40A

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804721F, 0804752F, 0804771F, 0901279F, 0901299F, 1203173F, 1203174F
<b>Line Item MDAP/MAIS Code:</b> CAMI		
<p>Assistant Secretary of Defense, Command, Control, Communications, and Intelligence (ASD/C3I) directed implementation of the DoD Cryptographic Modernization Initiative (CMI) on 23 February 2001. Chairman, Joint Chiefs of Staff (CJCS) Notice 6510/NSA 3-9 directs the modernization of all cryptography in military systems in the US, NATO and Coalition nations. To prevent information compromise, the National Security Agency (NSA) mandate requires Link 16 cryptographic systems be upgraded. The CJCS directed a modernization effort at the recommendation of the NSA to modernize equipment and provide enhanced security for Link 16 tactical networks (Cryptographic Modernization Initiative (CM)). Likewise, a radio frequency spectrum memorandum of agreement between the DoD and the Department of Transportation mandated the internal frequency remapping of our Link 16 family of terminals to avoid conflict with next generation Federal Aviation Administration (FAA) radio aids to navigation. These two mandates, among other operational reliability and capability improvements, will be satisfied under a Block Upgrade (BU2) effort planned for the Link 16 Multifunctional Information Distribution System (MIDS) Low Volume Terminal (LVT). BU2 will procure new Signal Message Processor (SMP) cards which incorporates the current NSA-mandated cryptographic standards. BU2 will also procure a new Tailored Processor/Ground Multiplexer card, update software and firmware in the MIDS LVT to improve operational reliability and provide the radio the ability to remap the lower frequency range of the terminal. The new cards will be installed in all terminals and spare cards will also be purchased. All together, BU2 will procure a retrofit kit which includes the SMP cards, Tailored Processor/Ground Multiplexer card, and updated software and firmware.</p> <p>PE 0207603F Combat Air Forces (CAF) Exercises and Readiness Training - P-40A Procures part task trainers for ACC and other CAF air crews to perform selected ground training tasks in conjunction with other air operations training activities as they train to become combat ready for worldwide air expeditionary force missions.</p> <p>PE 0207605F Wargaming and Simulation Centers - P-40A The Warrior Preparation Center conducts and supports integrated and distributed Live, Virtual, and Constructive (LVC) warfighter training for Joint and Combined partners in the European and African theaters.</p> <p>PE 0207697F Distributed Training and Exercises - P-40A AIR FORCE DISTRICT WASHINGTON: Wargaming and analysis suites, hardware, and software in direct support of the wargaming informational environment, which is distributed across the National Capitol Region, United States Air Force, and Combatant Commands worldwide. Funding for this exhibit contained in PE 0207697F.</p> <p>PE 0208087F AF OFFENSIVE CYBERSPACE OPERATIONS - P-40A Funds procure student mission training systems (hardware, software, infrastructure, and facility modifications) supporting Information &amp; Cyber Operations training needs of approximately 700 students per year.</p> <p>Cyberspace Force Application PEC 028087F - P-40A Funding procures specialized hardware/software necessary for real time deployment as Cyberspace network attack tools.</p> <p>PE 0303112F Air Force Communications (AIRCOM) - P-40A The Airborne Networking Global Information Grid (GIG) Interface (ANGI) provides a consolidated ground entry point for airborne communications network connectivity between the terrestrial and space layers. It supports Air Force and Joint efforts for integration of airborne, terrestrial and space layer networks. This initiative establishes ANGI sites that support deployed assets by extending the AFNet to the aerial layer.</p> <p>PE 0305128F Security and Investigative Activities - P-40A The Air Force Office of Special Investigation (AFOSI) Directorate of Warfighting Integration is responsible for the delivery of Information Technology (IT) services, both unclassified and classified, to over 250 locations, world-wide. The directorate also has the responsibility for continually identifying and implementing advanced applications, tools and IT technology that improve AFOSI's ability to manage investigative activity for Air Force leaders. It accomplishes this mission through the management and oversight of personnel, products and systems associated with unclassified, Secret, special access, law enforcement sensitive (LES) and Top Secret/SCI computers and information systems, long-haul, communications circuits, official records, Privacy Act, Freedom of Information Act, publication and forms, and official mail to achieve the command's operational objectives in support of the AF and Office of the Secretary of Defense as well as to achieve Executive mandates to improve information sharing within and between the law enforcement and intelligence communities.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804721F, 0804752F, 0804771F, 0901279F, 0901299F, 1203173F, 1203174F
<b>Line Item MDAP/MAIS Code:</b> CAMI		
<p>PE 0305173F Space and Missile Test and Evaluation Center - P-40A The Research and Development Space and Missile Operations (RDSMO) program, executed by the Advanced Systems and Development Directorate at Kirtland AFB, NM, conducts space and missile Research and Developmental Test and Evaluation (RDT&amp;E) and Initial Operational Test and Evaluation (IOT&amp;E) in support of experimental, demonstration, and operational satellites. The program develops, acquires, and operates satellite command and control (C2) and fixed/deployable telemetry, tracking, and commanding (TT&amp;C) antenna systems in support of AF and DoD missions. The RDSMO program is responsible for the design, development, integration, testing, sustainment, and operations of the Multi-Mission Satellite Operations Center (MMSOC) C2 product line installed in the RDT&amp;E Support Complex (RSC) at Kirtland AFB, NM and Schriever AFB, CO in support of the Enterprise Ground Services initiatives.</p> <p>PE 0305174F Space Innovation, Integration and Rapid Technology Development - P-40A Located at Peterson AFB, Colorado, the Space Innovation, Integration and Rapid Technology Development (SIIRTD) program develops and modifies modeling and simulation tools that Air Force Space Command's Space Analysis Center uses for operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Development activities incorporate changes in fielded and projected space operational capabilities, as well as technical improvements, into the group's software tools to ensure their data and technology remain current. Its innovation, education, and training activities foster solutions to operational deficiencies and enhance the integration of space systems into Air Force operations, thereby enabling service and joint warfighters to realized the full potential of existing and planned space capabilities.</p> <p>DISTRIBUTED COMMUNICATIONS ARCHITECTURE: This system provides a network based communications capability enabling dispersed space personnel to participate in space exercises and wargames and to assist in development, testing, and validation of SIIRTD innovation projects supporting the Combat Air Forces. It can also support limited command and control capabilities for space operations.</p> <p>SPACE ANALYSIS CENTER: Air Force Space Command's Space Analysis Center uses modeling and simulation tools to conduct operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Related modeling and simulation tool development is funded in RDT&amp;E, AF, PE 0305174F, Space Innovation, Integration and Rapid Technology Development.</p> <p>PE 0604281F Tactical Data Networks Enterprise - P-40A Tactical Data Link (TDL) enterprise efforts include equipment, fielding support, and associated contract support for the fielded Family of Gateways, as well as capability enhancements to TDLs, gateways, and AF contributions to the Joint Aerial Layer Network (JALN). These airborne networking systems enable combat forces to exchange information quickly and accurately by bridging discrete airborne, terrestrial, maritime, and space-based C4ISR networks. Tactical Data Network (TDN) Planning, Analysis and Monitoring Tactical Edge Network Command and Control (PAM/TENC2) will add capability to modernize CONUS ground-based TDL gateways.</p> <p>PE 0708012F Logistics Support Activities - P-40A GUNTER AIR FORCE BASE NETWORK SERVICES provide unique local area network (LAN) hardware to the population at Maxwell Air Force (MAFB)-Gunter Annex, AL including equipment for web access, file storage backup, information security, and application testing for AF programs worldwide hosted at MAFB-Gunter Annex, AL. LAN equipment enables MAFB-Gunter Annex to manage/support 122 programs and systems worldwide. MAFB-Gunter Annex exceeds the standard Base Information Transport Infrastructure (BITI) environment, therefore no funding is provided by BITI.</p> <p>PE 0708074F Joint Logistics Program - Total Asset Visibility - P-40A AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT): A collection of enabling technologies including linear and two-dimensional bar codes, radio frequency identification, smart cards, memory cards, laser cards, touch memory, and voice and biometrics identification. These technologies provide timely and accurate automatic capture, aggregation, and transfer of data to management information systems with minimal human involvement. By capitalizing on advances in technology the Air Force is able to gain efficiencies in the logistical supply chain and asset visibility throughout an item's life cycle. Project funding enables compatibility of Air Force and industry standards in the core areas of supply, transportation, and maintenance, as well as weaving commercial AIT business practices and standards into the Air Force's logistics infrastructure.</p> <p>PE 0804711F Recruit Training Units - P-40A</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804721F, 0804752F, 0804771F, 0901279F, 0901299F, 1203173F, 1203174F
<b>Line Item MDAP/MAIS Code:</b> CAMI		
<p>BASIC MILITARY TRAINING (BMT) SURVEILLANCE SECURITY SYSTEM: Basic Military Training sustains the combat capability of the Air Force (Active duty, Air National Guard and Air Force Reserve Command) with trained airmen. MTI Misconduct-Restore The Trust /Requirements associated with MTI misconduct issues at BMT. Due to the sexual misconduct by MTIs at BMT, AETC/CC directed a Commander Directed Investigation (CDI) to identify issues that place Airmen at risk in their training environment. SECAF/CSAF support findings and recommended actions to "Eliminate Detection Weakness". This effort continues the purchase, installation, and integration of a surveillance system covering common areas of the BMT facilities at JBSA-Lackland AFB for the deterrence and prosecution of misconduct. It includes hardware, system engineering/test and evaluation, site survey, infrastructure installation and support. Detailed requirements include: network switch, network storage device/upgrade package, computer monitor, site license, channel expansion license, hard drive, uninterruptable power supply, extended battery, digital monitor, cameras, and camera communication cable.</p> <p>PE 0804721F Service Academies - P-40A AIR FORCE ACADEMY COMPUTER SUPPORT: Air Force Academy uses two separate networks for day-to-day operations. Approximately 75% of the support is provided to USAFAEDU (academic network), providing the Academy's interface for mission elements, the cadet wing, direct reporting unit (DRU) and direct mission support organizations to DoD/AF military sites, commercial internet, other colleges and universities. The remaining support is provided to USAFAMIL, the interface with the AF's military only networks (NIPRNET and SIPRNET).</p> <p>PE 0804731F General Skill Training - P-40A GENERAL SKILL TRAINING: General Skills Training supports initial, advanced and supplemental training associated with all Air Force career fields taught or managed under Goodfellow, Keesler, Vandenberg, Sheppard, Lackland, and Fort Sam. This includes classroom and field training operations, management systems for students and faculty, and other requirements directly supporting Technical Training Groups, detachments, and various operating locations.</p> <p>TECHNICAL TRAINING MANAGEMENT SYSTEM (TTMS): TTMS provides AETC personnel and other users a suite of integrated and customized Commercial Off-The-Shelf (COTS)/Government Off-The-Shelf (GOTS) software products implemented in a centralized, enterprise-wide, web-based architecture for the development and administration of basic military and technical training. TTMS supports nine functions: student management, course design and development (for AETC and METC), student evaluation, statistical analysis and reporting, surveys, assessments and testing, Airman Interactive Management System (AIMS) for MTLs, Job Match/Seat Bank, and TTMS BMT for student processing.</p> <p>PE 0804751F Professional Military Education - P-40A Air University (AU) Education Technology (ET) Program funds the cradle-to-grave lifecycle management of IT systems, services, and resources that comprise AU Enterprise ET/IT portfolio. The primary systems under AU IT are CDSAR, STARS, AUSIS, AUSRIS, AUREPM, and AUSMS. This portfolio provides enrollment, content delivery, and student administration capabilities critical to all AU resident and non-resident courses. At the Air Force level, A6 provides the system of record capability for all AF PME/PCE; a system crucial to ensuring a fully prepared (trained and educated) expeditionary force. As AU aggressively pursues the enhancement of processes by which educational products are delivered to students, ET/IT demands will increase in frequency and complexity. Quickly revising software and inserting technology into those processes in a timeframe adequate to realize return on investment dollars or educational benefits requires an appropriately resourced A6 organization.</p>		



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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
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<b>Line Item MDAP/MAIS Code:</b> CAMI		
<p>PE 0804752F Other Professional Education - P-40A Accreditation of AFIT's engineering programs is directly related to both the existence of the well-equipped and maintained laboratories and an institutional commitment to fund equipment and maintenance. To serve the research needs of the USAF/DoD, students have up-to-date equipment to make tangible contributions to AF research needs. Existing equipment has reached the age where the cost to maintain it is impractical.</p> <p>PE 0804771F Support of the Training Establishment - P-40A Air University (AU) Education Technology (ET) Program funds the cradle-to-grave lifecycle management of IT systems, services, and resources that comprise AU Enterprise ET/IT portfolio. The primary systems under AU IT are CDSAR, STARS, AUSIS, AUSRIS, AUREPM, and AUSMS. This portfolio provides enrollment, content delivery, and student administration capabilities critical to all AU resident and non-resident courses. At the Air Force level, A6 provides the system of record capability for all AF PME/PCE; a system crucial to ensuring a fully prepared (trained and educated) expeditionary force. As AU aggressively pursues the enhancement of processes by which educational products are delivered to students, ET/IT demands will increase in frequency and complexity. Quickly revising software and inserting technology into those processes in a timeframe adequate to realize return on investment dollars or educational benefits requires an appropriately resourced A6 organization.</p> <p>PE 0901279F Facilities Operation - Administrative - P-40A CIVIL ENGINEER'S (CE) IT TRANSFORMATION: CE IT Transformation program's mission is to transform CE's business processes to better serve the CE customers and meet AF Transformational Goals. The plan is to leverage industry best practices, optimize core business processes, and replace existing outdated IT capabilities with a set of commercial off-the-shelf (COTS) software solutions and a service provider to deploy and maintain the system. This COTS solution will provide a robust, enterprise-wide CE capability and will consist of an integrated set of embedded / configurable best business practices and capabilities to support the following CE missions: Real Property Management; Work &amp; Supply Management, Project Management, Energy Management, Housing Management, Financial Management, Environmental Management, Planning, Emergency Services, Fire Operations and EOD.</p> <p>PE 0901299F AF A1 Systems - P-40A Provides funding for the sustainment and operation of hardware and software supporting Total Force Human Capital IT systems (RegAF, Reserve, ANG, Civilians, Retirees, and Beneficiates), network applications and infrastructure. These systems include items such as client servers, computer hardware and software, LANs, web self service and relational database management technologies and associated equipment to support all phases of the personnel life cycle, including accession, training, assignment, promotion, and retirement/separation. There are two programs:</p> <p>a. MILITARY PERSONNEL DATA SYSTEM: MiIPDS funding supports all AF Military Personnel Operations to include technology refresh for hardware supporting a variety of AF personnel applications such as: Automated Records Management Systems and Virtual Military Personnel Flight among others. Funding also supports MiIPDS Federal Data Center Consolidation Initiative (FDCCI) compliance efforts.</p> <p>b. AIR FORCE PERSONNEL OPERATIONS ACTIVITY (AFPOA) OPERATIONS: Funding provides for the procurement of the AFPOA data center infrastructure, including hardware and some software maintenance. Funding is used to support telephony requirements of the AF Total Force Service Centers at San Antonio and Denver. It also supports the Federal Data Center Consolidation Initiative (FDCCI) compliance efforts directed by Public Law 104-106 and 105-261 and DoDI 1400.25, Vol 1100.</p> <p>PE 1203173F Space and Missile Test and Evaluation Center - P-40A The Research and Development Space and Missile Operations (RDSMO) program, executed by the Advanced Systems and Development Directorate at Kirtland AFB, NM, conducts space and missile Research and Developmental Test and Evaluation (RDT&amp;E) and Initial Operational Test and Evaluation (IOT&amp;E) in support of experimental, demonstration, and operational satellites. The program develops, acquires, and operates satellite command and control (C2) and fixed/deployable telemetry, tracking, and commanding (TT&amp;C) antenna systems in support of AF and DoD missions. The RDSMO program is responsible for the design, development, integration, testing, sustainment, and operations of the Multi-Mission Satellite Operations Center (MMSOC) C2 systems installed in the RDT&amp;E Support Complex (RSC) at Kirtland AFB, NM and at the Satellite Operations Center 11 (SOC11) located at Schriever AFB, CO.</p> <p>PE 1203174F Space Innovation, Integration and Rapid Technology Development - P-40A</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804721F, 0804752F, 0804771F, 0901279F, 0901299F, 1203173F, 1203174F
<b>Line Item MDAP/MAIS Code:</b> CAMI		
<p>Located at Peterson AFB, Colorado, the Space Innovation, Integration and Rapid Technology Development (SIIRTD) program develops and modifies modeling and simulation tools that Air Force Space Command's Space Analysis Center uses for operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Development activities incorporate changes in fielded and projected space operational capabilities, as well as technical improvements, into the group's software tools to ensure their data and technology remain current. Its innovation, education, and training activities foster solutions to operational deficiencies and enhance the integration of space systems into Air Force operations, thereby enabling service and joint warfighters to realized the full potential of existing and planned space capabilities.</p> <p>DISTRIBUTED COMMUNICATIONS ARCHITECTURE: This system provides a network based communications capability enabling dispersed space personnel to participate in space exercises and wargames and to assist in development, testing, and validation of SIIRTD innovation projects supporting the Combat Air Forces. It can also support limited command and control capabilities for space operations.</p> <p>SPACE ANALYSIS CENTER: Air Force Space Command's Space Analysis Center uses modeling and simulation tools to conduct operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Related modeling and simulation tool development is funded in RDT&amp;E, AF, PE 0305174F, Space Innovation, Integration and Rapid Technology Development.</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:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects

**P-1 Line Item Number / Title:**  
 834010 / General Information Technology

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804721F, 0804752F, 0804771F, 0901279F, 0901299F, 1203173F, 1203174F

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

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	US Northern Command Communications				- / -	- / 2.917	- / 3.457	- / 3.908	- / 0.000	- / 3.908
P-40a	ISR Innovations				- / -	- / 4.701	- / 5.863	- / 6.599	- / 0.000	- / 6.599
P-40a	C2ISR Tactical Data Link				- / -	- / 2.246	- / 1.580	- / 2.875	- / 0.000	- / 2.875
P-40a	Combat Air Forces (CAF) Exercises and Readiness Training				- / -	- / 0.164	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40a	Wargaming and Simulation Centers				- / -	- / 0.594	- / 1.199	- / 0.799	- / 0.000	- / 0.799
P-40a	Distributed Training and Exercises				- / -	- / 0.248	- / 0.339	- / 0.337	- / 0.000	- / 0.337
P-40a	AF OFFENSIVE CYBERSPACE OPERATIONS				- / -	- / 1.329	- / 1.554	- / 8.781	- / 0.000	- / 8.781
P-40a	Air Force Communications (AIRCOM)				- / -	- / 3.953	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40a	Security and Investigative Activities				- / -	- / 1.337	- / 1.800	- / 1.790	- / 0.000	- / 1.790
P-40a	Communications and Information Technology				- / -	- / 0.000	- / 5.102	- / 0.000	- / 0.000	- / 0.000
P-40a	Tactical Data Networks Enterprise				- / -	- / 0.002	- / 1.842	- / 0.312	- / 0.000	- / 0.312
P-40a	Logistics Support Activities				- / -	- / 0.000	- / 1.177	- / 1.426	- / 0.000	- / 1.426
P-40a	Joint Logistics Program - Total Asset Visibility				- / -	- / 5.620	- / 5.604	- / 3.539	- / 0.000	- / 3.539
P-40a	Recruit Training Units				- / -	- / 0.630	- / 1.624	- / 0.847	- / 0.000	- / 0.847
P-40a	Service Academies				- / -	- / 3.227	- / 0.074	- / 1.812	- / 0.000	- / 1.812
P-40a	Service Academies				- / 0.000	- / 0.000	- / 3.300	- / 9.103	- / 0.000	- / 9.103
P-40a	General Skill Training				- / -	- / 0.455	- / 0.695	- / 0.692	- / 0.000	- / 0.692
P-40a	Professional Military Education				- / 0.000	- / 0.000	- / 0.000	- / 1.017	- / 0.000	- / 1.017
P-40a	Other Professional Education				- / -	- / 0.357	- / 0.494	- / 0.492	- / 0.000	- / 0.492
P-40a	Support of the Training Establishment				- / -	- / 0.730	- / 1.016	- / 0.000	- / 0.000	- / 0.000
P-40a	Facilities Operation - Administrative				- / -	- / 0.000	- / 0.000	- / 0.760	- / 0.000	- / 0.760
P-40a	AF A1 Systems				- / -	- / 0.786	- / 1.601	- / 3.112	- / 0.000	- / 3.112
P-40a	Space and Missile Test and Evaluation Center				- / -	- / 1.435	- / 1.977	- / 1.964	- / 0.000	- / 1.964
P-40a	Space Innovation, Integration and Rapid Technology Development				- / -	- / 1.221	- / 1.481	- / 1.661	- / 0.000	- / 1.661
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 31.952</b>	<b>- / 41.779</b>	<b>- / 51.826</b>	<b>- / 0.000</b>	<b>- / 51.826</b>

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

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

**Justification:**  
 PE 0201130F US Northern Command Communications - P-40A

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804721F, 0804752F, 0804771F, 0901279F, 0901299F, 1203173F, 1203174F
<b>Line Item MDAP/MAIS Code:</b> CAMI		
<p>a. NORAD AND NORTHCOM INTEROPERABLE COMMUNICATIONS: FY18 funding procures equipment and associated support that provide deployable, interoperable commercial communications capability NORAD - USNORTHCOM Headquarters; USNORTHCOM Domestic Operations (DOMOPS), and Subordinate Commands). The system consists of deployable communications base stations, Infrastructure and Joint Tactical Radio System handsets to enable the Defense Support of Civil Authorities mission.</p> <p>b. DEPLOYABLE COMMUNICATION CAPABILITY SYSTEM LIFE CYCLE MANAGEMENT: FY18 funding ensures system life cycle support of the Deployable Communications Fleet, as well as, the lifecycle maintenance of these USNORTHCOM deployable communication systems. A centralized managed construct to enable the configuration management of deployable communication systems.</p> <p>c. EARLY WARNING RADAR (EWR) COMMUNICATIONS EQUIPMENT: No FY18 funding requested</p> <p>PE 0207277F ISR Innovations - P-40A FY17 funds will provide 1) Procurement of a standardized imagery tasking and management system for handling customer requirements and collection requests; 2) Shelter improvements to include changes to system configuration to reduce physical footprint; and 3) Integration of enhanced synthetic aperture RADAR (SAR) capabilities.</p> <p>PE 0207448F C2ISR Tactical Data Link - P-40A FY18 budget will enable procurement of 30 kits to satisfy two mandates (FAA frequency and NSA crypto), among other operational reliability and capability improvements under a Block Upgrade (BU2) effort planned for the Link 16 Multifunctional Information Distribution System (MIDS) Low Volume Terminal (LVT). BU2 will procure new Signal Message Processor (SMP) cards which incorporates the current NSA-mandated cryptographic standards. BU2 will also procure a new Tailored Processor/Ground Multiplexer card, update software and firmware in the MIDS LVT to improve operational reliability and provide the radio the ability to remap the lower frequency range of the terminal. The new cards will be installed in all terminals and spare cards will also be purchased. All together BU2 will procure a retrofit kit which includes the SMP cards, Tailored Processor/Ground Multiplexer card, and updated software and firmware.</p> <p>PE 0207605F Wargaming and Simulation Centers - P-40A FY18 procurement funding assures capital equipment replacement and network system upgrades for the command and control, warfighting, and support training systems at the tactical and operational levels of warfare. The equipment allows the WPC to lead USAFE-AFAFRICA toward full integration of Live, Virtual, and Constructive (LVC) capabilities and connectivity with our Coalition partners.</p> <p>PE 0207697F Distributed Training and Exercises - P-40A AIR FORCE DISTRICT WASHINGTON: FY18 funding will be used to procure hardware, software and licensing to build Wargame Information Environment (WIE) 3.6 in support of CSAF and AFMAJCOMs objective priorities for Air Force Wargaming Series 17.</p> <p>PE 0208087F AF OFFENSIVE CYBERSPACE OPERATIONS - P-40A Funds procure student mission training systems (hardware, software, network infrastructure and IT related equipment) supporting Information &amp; Cyber Operations training needs of approximately 700 students per year.</p> <p>PE 0303112F Air Force Communications (AIRCOM) - P-40A No FY18 funding requested.</p> <p>PE 0305128F Security and Investigative Activities - P-40A FY18 funds will provide AFOSI Server Virtualization, which will increase efficiency of limited system administrative staff and reduce future capital investment costs of new hardware. The virtual server environment also delivers new capability not available in a non-virtual server environment, such as rapid Information Assurance patching, automatic error detection, failover and disaster recovery of critical applications, reduce footprint from both a physical space and energy perspective. These funds will enable AFOSI standard IT equipment and specialized investigative equipment to provide the latest capabilities of specialized investigative support to DoD/USAF investigations/operations both in-garrison and in support of wartime operations, for over 3,000 AFOSI personnel in more than 250 worldwide locations.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804721F, 0804752F, 0804771F, 0901279F, 0901299F, 1203173F, 1203174F
<b>Line Item MDAP/MAIS Code:</b> CAMI		
<p>PE 0305173F Space and Missile Test and Evaluation Center - P-40A          Space and Missile Test and Evaluation Center PE 1203173F - P-40A          FY18 funds will be used to purchase hardware and software to support the implementation of the Multi-Mission Satellite Operations Center (MMSOC) C2 product in support of Enterprise Ground Services (EGS) requirements. Note: Due to the creation of a new Major Force Program for Space, funding in this exhibit for this effort from "Prior Years" to FY 2017 was originally budgeted in the PE 0305173F. Funding in this exhibit for this effort from FY 2018 to "Cost to Completion" is budgeted in PE 1203173F.</p> <p>PE 0305174F Space Innovation, Integration and Rapid Technology Development - P-40A          FY18 funding supports the AFSPC Space Analysis Center Virtual Analysis Capability (AVAC) system. A stand-alone system that provides a crosscutting capability to conduct, support, and report analysis on a myriad of tools, data, models and simulations. This system allows leadership to make decisions based on quantifiable operational impacts output from AVAC based on various vignettes and studies applied to space and cyber assets. Funding buys system-specific hardware, software, routers, licenses, etc., to maintain the efficiency and compatibility with all current models.</p> <p>PE 0604281F Tactical Data Networks Enterprise - P-40A          FY18 funding provides procurement for all Tactical Data Link (TDL) enterprise efforts. This includes equipment, fielding support, and associated contract support for the fielded Family of Gateways, as well as capability enhancements to TDLs, gateways, and AF contributions to the Joint Aerial Layer Network (JALN). These airborne networking systems enable combat forces to exchange information quickly and accurately by bridging discrete airborne, terrestrial, maritime, and space-based C4ISR networks.</p> <p>PE 0708012F Logistics Support Activities - P-40A          FY18 funding supports the procurement of Installation Processing Node (IPN) and Local Area Network (LAN) Tech refresh: routers, servers, network storage and switches that provide core network services critical to the sustainment of the Business and Enterprise Systems (BES) portfolio of systems. These systems support the daily business of the Air Force including pay, logistics, Civil Engineering, Medical, and enterprise software license management. Provides end-of-life equipment replacement for a fully operational LAN.</p> <p>PE 0708074F Joint Logistics Program - Total Asset Visibility - P-40A          AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT): FY 18 funding will be used to implement the use of Item Unique Identification (IUID) for tracking and accounting for CLASS II, VII and IX assets, to meet DoD mandate.</p> <p>PE 0804711F Recruit Training Units - P-40A          BASIC MILITARY TRAINING (BMT) SURVEILLANCE SECURITY SYSTEM: Directly supports CSAF memo 14 Nov 12, "Combating Sexual Assault in the Air Force."          FY18 funding allows for the continuation to procure/install surveillance systems, eliminating weaknesses in detection measures by improving the security surveillance in the Airman Training Complexes (ATCs), and the Dining and Classroom Facilities (DCF). Mitigates risk and secures the physical safety of ~37K Basic Military Trainees. Achieves capability of an enduring culture that promotes a safe, secure, and productive training environment for all Airmen. Effectively target limited resources to deter, detect, dissuade and hold personnel accountable in all BMT facilities.</p> <p>PE 0804721F Service Academies - P-40A          US AIR FORCE ACADEMY (USAF):</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804721F, 0804752F, 0804771F, 0901279F, 0901299F, 1203173F, 1203174F
<b>Line Item MDAP/MAIS Code:</b> CAMI		
<p>(1) AIR FORCE ACADEMY COMPUTER SUPPORT: FY18 funds procure IT to upgrade performance, security, and availability of USAFA.MIL and USAFA.EDU to comply with AF Enterprise Architecture standards in order to support the AF Academy mission. FY18 funds procure IT integral to the operation of each network in support of the Air Force Academy mission.</p> <p>(2) CADET ADMINISTRATION MANAGEMENT INFORMATION SYSTEM (CAMIS): FY18 funds also continue the modernization of CAMIS, which resides on the USAFAEDU domain. CAMIS is a cradle-to-grave system supporting all facets of student management including recruitment and outreach, admissions, registrar, preparatory, academic, athletic, military training assessments from the candidate's initial application to graduation &amp; commissioning and continuing through the military career of each cadet. FY18 funding increase is due to the modernization effort to transition CAMIS from a custom-coded system to a primarily Commercial Off the Shelf (COTS)-based system, including the integration of the COTS products and interfaces with GOTS systems.</p> <p>PE 0804731F General Skill Training - P-40A GENERAL SKILL TRAINING: Funding supports procurement of electronic and telecom equipment supporting the General Skills Training enterprise, and primarily includes video equipment and training management systems equipment (other than TTMS).</p> <p>TECHNICAL TRAINING MANAGEMENT SYSTEM (TTMS): FY17 funding supports the primary requirement objectives currently under development: 1)Integration of Basic Training Management System (BTMS) capabilities and student records into the TTMS.</p> <p>PE 0804751F Professional Military Education - P-40A Funds procure IT systems, services, and resources that comprise AU Enterprise ET/IT portfolio. The primary systems under AU IT are CDSAR, STARS, AUSIS, AUSRIS, AUREPM, and AUSMS. This portfolio provides enrollment, content delivery, and student administration capabilities critical to all AU resident to all AU resident and non-resident courses. At the Air Force level, A6 provides the system of record capability for all AF PME/PCE; a system crucial to ensuring a fully prepared (trained and educated) expeditionary force.</p> <p>PE 0804752F Other Professional Education - P-40A FY18 funding supports AFIT Lab Equipment: Laboratory Equipment procurement funding provides for: Satellite Communication Ground Stations, Cube Sat Flight Hardware, Space Thruster Measurement System, UHF High Frequency Stages, Time Resolved Particle Image Velocimetry System, Digiscan CL3 System for the AFIT clean room, Space Chromotomography Equipment, Space Electronics Laboratory, Laser Steering Mirror System, CTEEx Phantom Camera, Low Temp Flow System for EPR, Microwave Cavity B-field Sensor, Sample Load Lock System, Point Probe with ITO Reference Sample, Micro Thermal Imaging System, Circuit Failure Analysis Digital Microscope System, Pioneer Power-Bot AGV Robot, GPS Receivers, IMU and accessories, Dual-Output Programmable Power Supplies, and Scanning Electron Microscope equipment to support graduate student thesis and dissertations research.</p> <p>PE 0901279F FY18 funds next generation IT.</p> <p>PE 0901299F AF A1 Systems - P-40A FY18 Funding supports the MiIPDS and AFPOA Operations programs. Effective in FY17, the Regionalization of Civilian Personnel Support, Personnel Service Delivery and Air Force Personnel Center were consolidated for more effective management and oversight into Air Force Personnel Operations Agency (AFPOA) Network Infrastructure.</p> <p>1. MILITARY PERSONNEL DATA SYSTEM: MiIPDS funding supports all AF Military Personnel Operations to include technology refresh for hardware supporting a variety of AF personnel applications such as: Automated Records Management Systems and Virtual Military Personnel Flight among others. Funding also supports MiIPDS FDCCI compliance efforts.</p> <p>2. AIR FORCE PERSONNEL OPERATIONS ACTIVITY (AFPOA) Operations: AFPOA includes Regionalization of Civilian Personnel Support, Personnel Service Delivery and Air Force Personnel Center. Funding provides for the operation and sustainment of the AFPOA contact center telephony solution. Specifically, funding provides for modular software additions, upgrades, continuing stabilization, and sustainment of the current Genesys telephony solution supporting the Total Force Service Center, Services, A1 Service Desk, and other A1 contact center entities. The individual funding lines for</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804721F, 0804752F, 0804771F, 0901279F, 0901299F, 1203173F, 1203174F
<b>Line Item MDAP/MAIS Code:</b> CAMI		
<p>REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT (RCPS), ERSONNEL SERVICE DELIVERY (PSD),and AIR FORCE PERSONNEL CENTER (AFPC), are now consolidated into the single AFPOA funding line.</p> <p>PE 1203173F Space and Missile Test and Evaluation Center - P-40A FY18 funds will be used to purchase hardware and software to support the implementation of the MMSOC C2 product in in support of Enterprise Ground Services (EGS) requirements. Note: Due to the creation of a new Major Force Program for Space, funding in this exhibit for this effort from "Prior Years" to FY 2017 was originally budgeted in the PE 0305173F. Funding in this exhibit for this effort from FY 2018 to "Cost to Completion" is budgeted in PE 1203173F.</p> <p>PE 1203174F Space Innovation, Integration and Rapid Technology Development - P-40A FY18 funding supports the AFSPC Space Analysis Center Virtual Analysis Capability (AVAC) system. A stand-alone system that provides a crosscutting capability to conduct, support, and report analysis on a myriad of tools, data, models and simulations. This system allows leadership to make decisions based on quantifiable operational impacts output from AVAC based on various vignettes and studies applied to space and cyber assets. Funding buys system-specific hardware, software, routers, licenses, etc., to maintain the efficiency and compatibility with all current models.</p> <p><b>Efforts with funding starting in FY 2019 through FY 2022 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:</b></p> <ul style="list-style-type: none"> <li>(a) FY 2019 Cost Delta: 49.231 million</li> <li>(b) FY 2020 Cost Delta: 41.179 million</li> <li>(c) FY 2021 Cost Delta: 39.567 million</li> <li>(d) FY 2022 Cost Delta: 38.505 million</li> <li>(e) FY Total Cost Delta: 294.039 million</li> </ul>		

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** US Northern Command Communications

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
INTEROPERABLE COMMUNICATION	A		-	-	-	-	-	0.581	-	-	0.581	-	-	0.550	-	-	0.000	-	-	0.550
DEPLOYABLE COMMUNICATIONS CAPABILITY SYSTEM LIFE CYCLE MANAGEMENT	A		-	-	-	-	-	2.336	-	-	2.876	-	-	3.358	-	-	0.000	-	-	3.358
EARLY WARNING RADAR (EWR) COMMUNICATIONS EQUIPMENT	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>2.917</b>	-	-	<b>3.457</b>	-	-	<b>3.908</b>	-	-	<b>0.000</b>	-	-	<b>3.908</b>
<b>Total</b>			-	-	-	-	-	<b>2.917</b>	-	-	<b>3.457</b>	-	-	<b>3.908</b>	-	-	<b>0.000</b>	-	-	<b>3.908</b>

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



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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** ISR Innovations

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
(1). EAGLE VISION DATA ACQUISITION SYSTEM REFRESH/ CAPITAL EQUIPMENT REPLACEMENT PE 0207277F	A		-		-	-		4.600			5.700	-		6.400	-		-			6.400
(3). EAGLE VISION PROGRAM MANAGEMENT ADMINISTRATION (PMA)	A		-		-	-		0.101			0.163	-		0.199	-		0.000			0.199
<b>Subtotal: Uncategorized</b>			-		-	-		<b>4.701</b>			<b>5.863</b>	-		<b>6.599</b>	-		<b>0.000</b>			<b>6.599</b>
<b>Total</b>			-		-	-		<b>4.701</b>			<b>5.863</b>	-		<b>6.599</b>	-		<b>0.000</b>			<b>6.599</b>

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

**Remarks:**  
 Due to the lifecycle of commercial satellites, Eagle Vision must update the system to retain the capability of downlinking imagery. As one commercial satellite constellation is decommissioned, Eagle Vision must procure hardware and software of a new satellite to allow for downlinking from the new satellite system. Currently Eagle Vision contains the hardware and software to receive downlinking from SPOT 6/7, TerraSAR-X/TANDEM-X, and Worldview satellites. Eagle Vision Block II will acquire the Pleiades 1A/1B downlinking capability and upgrade the dissemination performance to the Data Integration Segment (DIS).

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** C2ISR Tactical Data Link

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>INSTALL KITS (Active) PE 0207488F</b>																				
Install Kits (Active) PE 0207488F	A		-	-	-	0.082	24	1.972	0.082	16	1.306	0.082	30	2.461	-	-	0.000	0.082	30	2.461
<b>Subtotal: INSTALL KITS (Active) PE 0207488F</b>			-	-	-	-	-	1.972	-	-	1.306	-	-	2.461	-	-	0.000	-	-	2.461
<b>Other Government Support</b>																				
Other Government Support	A		-	-	-	0.274	1	0.274	0.274	1	0.274	0.414	1	0.414	-	-	0.000	0.414	1	0.414
<b>Subtotal: Other Government Support</b>			-	-	-	-	-	0.274	-	-	0.274	-	-	0.414	-	-	0.000	-	-	0.414
<b>Total</b>			-	-	-	-	-	2.246	-	-	1.580	-	-	2.875	-	-	0.000	-	-	2.875

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Aggregated Items Title:</b> Combat Air Forces (CAF) Exercises and Readiness Training
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
COMBAT AIR FORCE EXERCISES AND READINESS TRAINING PE 0207603F	A		-	-	-	-	-	0.164	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.164</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>0.164</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Wargaming and Simulation Centers

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
WARRIOR PREPARATION CENTER PE 0207605F	A		-	-	-	-	-	0.594	-	-	1.199	-	-	0.799	-	-	0.000	-	-	0.799
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.594</b>	-	-	<b>1.199</b>	-	-	<b>0.799</b>	-	-	<b>0.000</b>	-	-	<b>0.799</b>
<b>Total</b>			-	-	-	-	-	<b>0.594</b>	-	-	<b>1.199</b>	-	-	<b>0.799</b>	-	-	<b>0.000</b>	-	-	<b>0.799</b>

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

**Remarks:**

These procurement funds serve to refresh and upgrade network systems for the command and control, warfighting, and support training systems at the tactical and operational levels of warfare. The equipment allows the WPC to lead USAFE toward full integration of live, virtual, and constructive capabilities and connectivity with our coalition partners. This effort is funded in PE 0207605F.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Aggregated Items Title:</b> Distributed Training and Exercises
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
DISTRIBUTED TRAINING AND EXERCISES PE 0207697F	A		-	-	-	-	-	0.248	-	-	0.339	-	-	0.337	-	-	0.000	-	-	0.337
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.248</b>	-	-	<b>0.339</b>	-	-	<b>0.337</b>	-	-	<b>0.000</b>	-	-	<b>0.337</b>
<b>Total</b>			-	-	-	-	-	<b>0.248</b>	-	-	<b>0.339</b>	-	-	<b>0.337</b>	-	-	<b>0.000</b>	-	-	<b>0.337</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Aggregated Items Title:</b> AF OFFENSIVE CYBERSPACE OPERATIONS
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
CYBER WORKFORCE TRAINING PE 0208087F	A		-	-	-	1.329	1	1.329	1.554	1	1.554	1.781	1	1.781	-	-	0.000	1.781	1	1.781
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	1.329	-	-	1.554	-	-	1.781	-	-	0.000	-	-	1.781
<b>Cyberspace Force Application</b>																				
Cyber Mission Platform Equipment	A		-	-	-	-	-	-	-	-	-	1.750	4	7.000	-	-	-	1.750	4	7.000
<b>Subtotal: Cyberspace Force Application</b>			-	-	-	-	-	-	-	-	-	-	-	7.000	-	-	-	-	-	7.000
<b>Total</b>			-	-	-	-	-	1.329	-	-	1.554	-	-	8.781	-	-	0.000	-	-	8.781

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

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Air Force Communications (AIRCOM)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
AIRBORNE NETWORKING INTEGRATION (OCO) (PE 0303112F)	A		-	-	-	-	-	3.953	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>3.953</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>3.953</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

**Remarks:**  
The ANGI FY15 and FY16 OCO funding will engineer and field 2 consolidated airborne communications GIG entry point system. In addition, the funding will support Interim Contractor Support (ICS).

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Security and Investigative Activities

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
OSI OPERATIONS PE 0305128F	A		-	-	-	-	-	1.337	-	-	1.800	-	-	1.790	-	-	0.000	-	-	1.790
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>1.337</b>	-	-	<b>1.800</b>	-	-	<b>1.790</b>	-	-	<b>0.000</b>	-	-	<b>1.790</b>
<b>Total</b>			-	-	-	-	-	<b>1.337</b>	-	-	<b>1.800</b>	-	-	<b>1.790</b>	-	-	<b>0.000</b>	-	-	<b>1.790</b>

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



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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology						<b>Aggregated Items Title:</b> Communications and Information Technology							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Communications and Information Technology</b>																				
Communications and Information Technology PE 0308611F	A		-	-	-	-	-	0.000	-	-	5.102	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Communications and Information Technology</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>5.102</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>5.102</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Aggregated Items Title:</b> Tactical Data Networks Enterprise
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
c. TACTICAL DATA NETWORKS ENTERPRISE (PE 0604281F)	A		-	-	-	-	-	0.002	-	-	1.842	-	-	0.312	-	-	0.000	-	-	0.312
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.002</b>	-	-	<b>1.842</b>	-	-	<b>0.312</b>	-	-	<b>0.000</b>	-	-	<b>0.312</b>
<b>Total</b>			-	-	-	-	-	<b>0.002</b>	-	-	<b>1.842</b>	-	-	<b>0.312</b>	-	-	<b>0.000</b>	-	-	<b>0.312</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Aggregated Items Title:</b> Logistics Support Activities
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
GUNTER AIR FORCE BASE NETWORK SERVICES PE 0708012F	A		-	-	-	-	-	0.000	-	-	1.177	-	-	1.426	-	-	0.000	-	-	1.426
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>1.177</b>	-	-	<b>1.426</b>	-	-	<b>0.000</b>	-	-	<b>1.426</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>1.177</b>	-	-	<b>1.426</b>	-	-	<b>0.000</b>	-	-	<b>1.426</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Aggregated Items Title:</b> Joint Logistics Program - Total Asset Visibility
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Active Radio Frequency Identification PE 0708074F	A		-	-	-	-	-	1.337	-	-	1.043	-	-	0.539	-	-	0.000	-	-	0.539
Passive Radio Frequency Identification	A		-	-	-	-	-	1.029	-	-	1.367	-	-	1.000	-	-	0.000	-	-	1.000
Item Unique Identification	A		-	-	-	-	-	1.913	-	-	1.042	-	-	1.000	-	-	0.000	-	-	1.000
Real Time Locating Systems	A		-	-	-	-	-	1.341	-	-	2.152	-	-	1.000	-	-	0.000	-	-	1.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>5.620</b>	-	-	<b>5.604</b>	-	-	<b>3.539</b>	-	-	<b>0.000</b>	-	-	<b>3.539</b>
<b>Total</b>			-	-	-	-	-	<b>5.620</b>	-	-	<b>5.604</b>	-	-	<b>3.539</b>	-	-	<b>0.000</b>	-	-	<b>3.539</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Aggregated Items Title:</b> Recruit Training Units
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
BMT Surveillance System PE 0804711F	A		-	-	-	-	-	0.630	-	-	1.624	-	-	0.847	-	-	0.000	-	-	0.847
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.630</b>	-	-	<b>1.624</b>	-	-	<b>0.847</b>	-	-	<b>0.000</b>	-	-	<b>0.847</b>
<b>Total</b>			-	-	-	-	-	<b>0.630</b>	-	-	<b>1.624</b>	-	-	<b>0.847</b>	-	-	<b>0.000</b>	-	-	<b>0.847</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Service Academies

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
SERVICE ACADEMIES - USAFA PE 0804721F	A		-	-	-	-	-	3.227	-	-	0.074	-	-	1.812	-	-	0.000	-	-	1.812
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>3.227</b>	-	-	<b>0.074</b>	-	-	<b>1.812</b>	-	-	<b>0.000</b>	-	-	<b>1.812</b>
<b>Total</b>			-	-	-	-	-	<b>3.227</b>	-	-	<b>0.074</b>	-	-	<b>1.812</b>	-	-	<b>0.000</b>	-	-	<b>1.812</b>

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

**Remarks:**  
 The FY18 funding increase is due to the modernization effort to transition CAMIS from a custom-coded system to a primarily Commercial Off the Shelf (COTS)-based system, including the integration of the COTS products and interfaces with GOTS systems.

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Modification Items Title:** Service Academies

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
CAMIS / Cadet Administration Management Information System			-	-	-	-	-	-	-	-	3.300	-	-	9.103	-	-	-	-	-	9.103
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>3.300</b>	-	-	<b>9.103</b>	-	-	<b>0.000</b>	-	-	<b>9.103</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
CAMIS / Cadet Administration Management Information System	CAMIS	Capability Improvement

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** General Skill Training

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
GEN SKILL TRAINING PE 0804731F	A		-	-	-	-	-	0.213	-	-	0.367	-	-	0.366	-	-	0.000	-	-	0.366
TECH TNG MANAGEMENT SYSTEM	A		-	-	-	-	-	0.242	-	-	0.328	-	-	0.326	-	-	0.000	-	-	0.326
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.455</b>	-	-	<b>0.695</b>	-	-	<b>0.692</b>	-	-	<b>0.000</b>	-	-	<b>0.692</b>
<b>Total</b>			-	-	-	-	-	<b>0.455</b>	-	-	<b>0.695</b>	-	-	<b>0.692</b>	-	-	<b>0.000</b>	-	-	<b>0.692</b>

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

**Remarks:**  
FYDP baseline data for OAC 64 ONLY.

FY18 OCO will not be developed until later in FY17, since it is a budget year only activity.



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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Professional Military Education

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Professional Military Education</b>																				
Professional Military Education PE 0804751F	A		-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.017	-	-	0.000	-	-	1.017
<b>Subtotal: Professional Military Education</b>			-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>1.017</b>	-	-	<b>0.000</b>	-	-	<b>1.017</b>
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>1.017</b>	-	-	<b>0.000</b>	-	-	<b>1.017</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Other Professional Education

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Other Professional Education</b>																				
OTHER PROFESSIONAL EDUCATION PE 0804752F	A		-	-	-	-	-	0.357	-	-	0.494	-	-	0.492	-	-	0.000	-	-	0.492
<b>Subtotal: Other Professional Education</b>			-	-	-	-	-	<b>0.357</b>	-	-	<b>0.494</b>	-	-	<b>0.492</b>	-	-	<b>0.000</b>	-	-	<b>0.492</b>
<b>Total</b>			-	-	-	-	-	<b>0.357</b>	-	-	<b>0.494</b>	-	-	<b>0.492</b>	-	-	<b>0.000</b>	-	-	<b>0.492</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Support of the Training Establishment

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
TRAINING SUPPORT PE 0804771F	A		-	-	-	-	-	0.730	-	-	1.016	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.730</b>	-	-	<b>1.016</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>0.730</b>	-	-	<b>1.016</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology	<b>Aggregated Items Title:</b> Facilities Operation - Administrative
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
NexGen IT PE 0901279F	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.760	-	-	0.000	-	-	0.760
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.760</b>	-	-	<b>0.000</b>	-	-	<b>0.760</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.760</b>	-	-	<b>0.000</b>	-	-	<b>0.760</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** AF A1 Systems

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
PERSONNEL SERVICE DELIVERY PE 0901299F	A		-	-	-	-	-	0.282	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
MILITARY PERSONNEL DATA SYSTEM (MLPDS)	A		-	-	-	-	-	0.283	-	-	0.536	-	-	0.504	-	-	0.000	-	-	0.504
REGIONALIZATION OF CIV PERS SUPPORT	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
AIR FORCE PERSONNEL CENTER	A		-	-	-	-	-	0.221	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Air Force Personnel Operations Agency (AFPOA) Network Infrastructure	A		-	-	-	-	-	-	-	-	1.065	-	-	2.608	-	-	0.000	-	-	2.608
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.786</b>	-	-	<b>1.601</b>	-	-	<b>3.112</b>	-	-	<b>0.000</b>	-	-	<b>3.112</b>
<b>Total</b>			-	-	-	-	-	<b>0.786</b>	-	-	<b>1.601</b>	-	-	<b>3.112</b>	-	-	<b>0.000</b>	-	-	<b>3.112</b>

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4							<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology								<b>Aggregated Items Title:</b> Space and Missile Test and Evaluation Center				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Space and Missile Test and Evaluation Center</b>																				
RESEARCH AND DEVELOPMENT SPACE AND MISSILE OPERATIONS (RDSMO) (PE 1203173F)	A		-	-	-	-	-	1.435	-	-	1.977	-	-	1.964	-	-	0.000	-	-	1.964
<b>Subtotal: Space and Missile Test and Evaluation Center</b>			-	-	-	-	-	<b>1.435</b>	-	-	<b>1.977</b>	-	-	<b>1.964</b>	-	-	<b>0.000</b>	-	-	<b>1.964</b>
<b>Total</b>			-	-	-	-	-	<b>1.435</b>	-	-	<b>1.977</b>	-	-	<b>1.964</b>	-	-	<b>0.000</b>	-	-	<b>1.964</b>

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

**Remarks:**

Due to the creation of a new Major Force Program for Space, funding in this exhibit for this effort from "Prior Years" to FY 2017 was originally budgeted in the PE 0305173F. Funding in this exhibit for this effort from FY 2018 to "Cost to Completion" is budgeted in PE 1203173F.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834010 / General Information Technology						<b>Aggregated Items Title:</b> Space Innovation, Integration and Rapid Technology Development							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Space Innovation, Integration and Rapid Technology</b>																				
Space Innovation, Integration and Rapid Technology	A		-	-	-	-	-	1.221	-	-	1.481	-	-	1.661	-	-	0.000	-	-	1.661
<b>Subtotal: Space Innovation, Integration and Rapid Technology</b>			-	-	-	-	-	<b>1.221</b>	-	-	<b>1.481</b>	-	-	<b>1.661</b>	-	-	<b>0.000</b>	-	-	<b>1.661</b>
<b>Total</b>			-	-	-	-	-	<b>1.221</b>	-	-	<b>1.481</b>	-	-	<b>1.661</b>	-	-	<b>0.000</b>	-	-	<b>1.661</b>

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

**Remarks:**

Due to the creation of a new Major Force Program for Space, funding in this exhibit for this effort from "Prior Years" to FY 2017 was originally budgeted in the PE 0305174F. Funding in this exhibit for this effort from FY 2018 to "Cost to Completion" is budgeted in PE 1203174F.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects

**P-1 Line Item Number / Title:**  
834040 / AF Global Command & Control Sys

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0303150F

**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> )	-	7.212	15.729	3.634	0.000	3.634	6.666	4.646	4.847	4.921	-	47.655
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	7.212	15.729	3.634	0.000	3.634	6.666	4.646	4.847	4.921	-	47.655
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>7.212</b>	<b>15.729</b>	<b>3.634</b>	<b>0.000</b>	<b>3.634</b>	<b>6.666</b>	<b>4.646</b>	<b>4.847</b>	<b>4.921</b>	-	<b>47.655</b>

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

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

**Description:**

GLOBAL COMMAND AND CONTROL SYSTEM AIR FORCE (GCCS-AF): The GCCS-AF program provides the common AF infrastructure hardware and software necessary to pass AF command and control (C2) data among commands, their components, and the joint GCCS. This program procures GCCS components which include items such as servers, work stations, commercial-off-the-shelf (COTS) software, and associated peripherals to provide users with the full suite of joint baseline capability (including the common operating picture) and AF specific applications such as the Deliberate Crisis Action Planning and Execution Segments (DCAPES) and Logistics Feasibility Analysis Capability (LOGFAC) that feed into the Joint Operations Planning and Execution System (JOPES). GCCS-AF is integrated at the following locations to establish initial and full joint connectivity and operational capability across the spectrum of intelligence, operations, manpower, and logistics: AF-supported war-fighting commands, AF critical sites, Headquarters United States Air Force, Major Command headquarters (MAJCOM), numbered air forces, wings, Air National Guard (ANG) bases, Air Force Reserve (AFR) bases, and remote sites. Each site will comply with current Air Force and Department of Defense (DoD) network initiatives by employing a standardized interface among AF base-level classified C2 networks, AF base-level network control centers, and the joint Defense Information Systems Agency (DISA) Secret Internet Protocol Router Network (SIPRNET). This program provides a flexible open system and distributed C2 architecture necessary to support the joint GCCS. GCCS supports AF operations by installing and upgrading a site's classified C2 system through extensive use of COTS technology that adheres to AF command and control, communications, and computer architectures and standards.

NOTE: FY2018 reflects a GCCS-AF funding decrease of \$10.223M as this funding was transferred to PE 0207452F (DCAPES) as they assume responsibility for the Strategic Server Enclave (SSE) and Windows baselines for this program.

Funding for the exhibit contained in PE 0303150F: GLOBAL COMMAND AND CONTROL SYSTEM

**Justification:**

GLOBAL COMMAND AND CONTROL SYSTEM AIR FORCE (GCCS-AF): FY18 procurement funding procures various types and quantities of hardware and software in support of installation and unit mission requirements for Air Force personnel. GCCS-AF will procure and install GCCS-Joint (GCCS-J) version 6.0 hardware and software (government-off-the-shelf and commercial-off-the-shelf) at warfighter Combatant Command (CCMD) and MAJCOM locations, providing a full spectrum of command, control, logistics, and intelligence capability from strategic to unit level operations with total joint service connectivity. The GCCS architecture supports functional users on each base and specifically incorporates manpower and logistics functions into GCCS. These fielding activities are consistent with the AF's Air Expeditionary Force (AEF) C2 structure and integration with DoD's emerging next generation joint C2 enabler.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
 Equip / BSA 4: Spcl Comm-Electronics Projects

**P-1 Line Item Number / Title:**  
 834070 / Mobility Command and Control

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

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

Resource Summary	Prior Years	FY 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> )	-	13.062	9.814	10.083	0.000	10.083	20.868	10.447	10.634	10.827	-	85.735
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	13.062	9.814	10.083	0.000	10.083	20.868	10.447	10.634	10.827	-	85.735
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>13.062</b>	<b>9.814</b>	<b>10.083</b>	<b>0.000</b>	<b>10.083</b>	<b>20.868</b>	<b>10.447</b>	<b>10.634</b>	<b>10.827</b>	-	<b>85.735</b>

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

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

**Description:**

AMC Command and Control System PE 0401840F - P-40A  
 PE 0401840F MOBILITY COMMAND AND CONTROL:

GLOBAL MOBILITY COMMAND AND CONTROL (C2) ARCHITECTURE AIR MOBILITY COMMAND (AMC): The AMC C2 architecture is an integrated, command-wide program that supports US Air Force airlift/air refueling missions around the globe with centralized control/decentralized execution. To execute America's Global Reach mission, Air Mobility Command's 618th Air Operations Center (AOC) plans, schedules, and directs a fleet of more than 1,100 mobility aircraft. The 618th AOC operates combat delivery, strategic airlift, air refueling, and aeromedical evacuation operations around the world. Funding for this exhibit contained in program element (PE) 0401840F.

a. MOBILITY AIR FORCE (MAF) COMMAND AND CONTROL (C2) INFRASTRUCTURE: Provides base wired/wireless infrastructure equipment supporting AMC's 618th AOC and AMC's 12 bases to assure connectivity to AMC's command and control (C2) systems and to ensure they remain operational at AMC bases and operating locations. MAF C2 Infrastructure ensures connectivity with critical Air Force systems such as the Information Transport System (ITS), Global Combat Support System (GCSS) and the Global Decision Support System (GDSS); AMC's C2 systems such as the Consolidated Air Mobility Planning System (CAMPS) and Advanced Computer Flight Planning (ACFP) system and the infrastructure for Land Mobile Radio (LMR) systems across AMC providing intra-base command and control for base security, emergency management, flightline operations/maintenance, and crash response.

b. DEPLOYED SATELLITE COMMUNICATIONS (DSATCOM): Provides C2 communications capabilities for deployed Mobility C2 forces and mission support team C2 operations. These operations rapidly install mission support communications at austere base locations where communications to support air mobility operations are nonexistent or insufficient. The DSATCOM program is the primary funding vehicle for procuring communications equipment supporting these components. The resources directly support C2 and In-Transit Visibility (ITV) of deployed and enroute personnel, aircraft, and cargo providing critical communications to Contingency Response Groups (CRGs). CRGs are self-sufficient groups of multi-skilled, highly-trained airmen, representing different Air Force specialty codes, who can rapidly deploy anywhere in the world with little notice to open air bases for any follow-on mission. The Hard-side Expandable Lightweight Air Mobile Shelter (HELAMS) is the primary weapon system providing this support. It is a rapidly deployable, self-contained C2/ITV command center. This shelter functions as the base command post during the initial phases of airbase build-up and contains integrated communications equipment such as radios, computers, printers and fax machines. No funding is required for DSATCOM after FY16.

Special Operations Forces PE 0404011F - P-40A  
 PE 0404011F Special Operations Forces:

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834070 / Mobility Command and Control
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>Command and Control (C2) Air Rapid Response Kits (ARRKs) are tailored packages providing temporary base operating support (BOS)(i.e., SOF living facilities, command and control (C2), armory, fuel storage, water purification, and cold weather protection), which allow Air Force Special Operations Forces (AFSOFs) to perform expeditionary deployments to austere environments before conventional/service-common BOS packages become available. FY16 funding totals include \$2M appropriated for Overseas Contingency Operations.</p> <p>FY16 funding totals include \$2M appropriated for Overseas Contingency Operations.</p>		
<p><b>Justification:</b>            AMC Command and Control System PE 0401840F - P-40A            PE 0401840F MOBILITY COMMAND AND CONTROL</p> <p>MOBILITY AIR FORCE (MAF) COMMAND AND CONTROL (C2) INFRASTRUCTURE: FY18 funding continues procurement of wired and wireless base network infrastructure equipment to include cabling, routers, bridges, hubs, repeaters and switches to ensure information technology remains current and interoperability with AMC C2 systems is maintained to meet the needs of the warfighter and AMC's worldwide mobility mission.</p> <p>DEPLOYED SATCOM (DSATCOM): No funding requested/required for DSATCOM after FY16.</p> <p>Special Operations Forces PE 0404011F - P-40A            PE 0404011F Special Operations Forces:            No FY18 funding requested.</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:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
 Equip / BSA 4: Spcl Comm-Electronics Projects

**P-1 Line Item Number / Title:**  
 834130 / Air Force Physical Security System

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0207589F **Other Related Program Elements:** 0603287F, 0604287F

**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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	98.533	327.560	201.866	3.000	204.866	100.090 <sup>(a)</sup>	83.950 <sup>(b)</sup>	57.921 <sup>(c)</sup>	58.966 <sup>(d)</sup>	-	931.886 <sup>(e)</sup>
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	98.533	327.560	201.866	3.000	204.866	100.090	83.950	57.921	58.966	-	931.886
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>98.533</b>	<b>327.560</b>	<b>201.866</b>	<b>3.000</b>	<b>204.866</b>	<b>100.090</b>	<b>83.950</b>	<b>57.921</b>	<b>58.966</b>	-	<b>931.886</b>

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

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

**Description:**

PE 0101122F Air-Launched Cruise Missile (ALCM) - P-40A  
 PE 0101122F - AIR LAUNCHED CRUISE MISSILE (ALCM) SECURITY SYSTEMS includes commodity security equipment including intrusion detection sensors, alarm annunciators, and surveillance systems required for nuclear warhead storage locations.

PE 0101213F Minuteman Squadrons - P-40A  
 PE 0101213F MINUTEMAN SQUADRONS/Minuteman Security Equipment includes commodity security equipment including intrusion detection sensors, alarm annunciators, and surveillance systems required for nuclear warhead storage locations.

PE 0207588F Air Base Ground Defense - P-40A  
 Air Base Ground Defense (ABGD) will procure automated tactical/expeditionary equipment that is required to provide robust force protection capabilities worldwide; flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations, advanced technology force multipliers to include: night vision and thermal imagery equipment, counter sniper/battery capabilities, ground weapons, target acquisition radar, inter operable tactical communications, [required C3 and protective standoff equipment for]wheeled tactical [non-tactical], armored [un-armored] vehicles, tactical sensors systems, and unit/personnel protective field equipment.

FY17 \$15M Request for Additional Appropriations (RAA) Enhanced AB Detection Systems, consisting of advanced TASS, indirect fire detection and base warning systems.

PE 0207589F Base Physical Security Systems (BPSS)  
 BPSS programs include the Integrated Base Defense Security System programs (IBDSS and various acquisition blocks), and Counter-Small UAS capabilities. These activities do the following: reduces the risk to AF personnel; nuclear (PL-1N), and non-nuclear (PL 1-4) assets (weapon systems, aircraft, command & control systems, etc.) and facilities (hangars, SCIFs, etc.) at AF and ANG installations globally. DoD downsizing, reductions in forward basing, and aircraft technology advances evolved AF weapons systems into increasingly valuable national power projection capabilities. However, the security afforded most AF aircraft, weapon systems, other critical resources, and associated personnel and facilities in terms of equipment or manpower has not kept pace with the changing world environment, state-of-the-art technology and potential threats. The emergence of Remotely Piloted Aircraft (RPA) has led to additional command, control and communications nodes that require commensurate protection level security efforts to enable effective Air Force power projection. Force Protection BPSS projects support long-term physical security requirements which allow installation commanders and security forces to adapt to, and counter, enduring and emergent threats to high priority assets in accordance with home station and the Aerospace Expeditionary Force concept.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0207589F	<b>Other Related Program Elements:</b> 0603287F, 0604287F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>PE 0208047F Antiterrorism - P-40A  PE 0208047F: ANTI-TERRORISM  Tactical and Expeditionary Security Systems: FY18 funds antiterrorism activities for the Air Force. Primarily, this line funds the Air Force's only perimeter installation access control system, the Defense Biometrics Identification System (DBIDS). This line also funds mitigation efforts for Air Force vulnerabilities identified in Air Force and Joint higher headquarters inspections and vulnerability assessments, procurement of intrusion detection systems which greatly enhance the effectiveness of AF antiterrorism program efforts to detect, deter, and defend service members, civilian employees, family members, facilities, and other AF resources around the globe against terrorist attacks.</p> <p>PE 0208534F Command Support - Tactical Air Forces - P-40A  Funding is required for Command Support for Tactical Air Forces.</p> <p>PE 0502625F Air Base Security Forces (ANG) - P-40A  PE52625F Air Base Security Forces (ANG) is required for Battlefield Airman and includes Security Forces, Guardian Angels, Special Tactics, and Terminal Air Controllers. The items required include communication equipment, situational awareness equipment, personal protective equipment, night vision devices, weapons and weapons accessories, training devices, and explosive detection equipment. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0207589F **Other Related Program Elements:** 0603287F, 0604287F

**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	Air-Launched Cruise Missile (ALCM)				- / -	- / 1.908	- / 1.710	- / 1.757	- / 0.000	- / 1.757
P-40a	Minuteman Squadrons				- / -	- / 0.814	- / 0.730	- / 0.751	- / 0.000	- / 0.751
P-40a	Air Base Ground Defense				- / -	- / 23.420	- / 27.147	- / 4.774	- / 0.000	- / 4.774
P-40a	Base Physical Security Systems				- / 0.000	- / 0.000	- / 76.000	- / 0.000	- / 0.000	- / 0.000
P-3a	1 / Base Physical Security Systems (Capability Improvement)				- / -	- / 63.291	- / 18.613	- / 34.408	- / 0.000	- / 34.408
P-3a	2 / Counter small - UAS (Capability Improvement)				- / -	- / 0.000	- / 70.500	- / 136.000	- / 0.000	- / 136.000
P-3a	3 / IBDSS-1 (Capability Improvement)				- / -	- / 0.000	- / 65.869	- / 16.029	- / 0.000	- / 16.029
P-40a	Antiterrorism				- / -	- / 9.100	- / 7.891	- / 8.147	- / 0.000	- / 8.147
P-40a	Command Support - Tactical Air Forces				- / -	- / 0.000	- / 0.000	- / 0.000	- / 3.000	- / 3.000
P-40a	Air Base Security Forces (ANG)				- / -	- / 0.000	- / 59.100	- / 0.000	- / 0.000	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 98.533</b>	<b>- / 327.560</b>	<b>- / 201.866</b>	<b>- / 3.000</b>	<b>- / 204.866</b>

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	Air-Launched Cruise Missile (ALCM)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Minuteman Squadrons				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Air Base Ground Defense				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Base Physical Security Systems				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / Base Physical Security Systems (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	2 / Counter small - UAS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	3 / IBDSS-1 (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Antiterrorism				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Command Support - Tactical Air Forces				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Air Base Security Forces (ANG)				- / -	- / -	- / -	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 100.090</b>	<b>- / 83.950</b>	<b>- / 57.921</b>	<b>- / 58.966</b>	<b>- / -</b>	<b>- / 931.866</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.  
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 This program, Air Force Physical Security System P-40A Item New Item, is a new start.  
 PE 0101122F Air-Launched Cruise Missile (ALCM) - P-40A

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0207589F	<b>Other Related Program Elements:</b> 0603287F, 0604287F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>PE 0101122F - AIR LAUNCHED CRUISE MISSILE (ALCM) SECURITY SYSTEMS: FY18 funding procures commodity security equipment including intrusion detection sensors, alarm annunciators, and surveillance systems required for nuclear warhead storage locations.</p> <p>PE 0101213F Minuteman Squadrons - P-40A PE 0101213F MINUTEMAN SQUADRONS/Minuteman Security Equipment: FY17 funding procures commodity security equipment including intrusion detection sensors, alarm annunciators, and surveillance systems required for nuclear warhead storage locations.</p> <p>PE 0207588F Air Base Ground Defense - P-40A Air Base Ground Defense, (ABGD): FY17 (OCO) funding will procure fixed site Intrusion Detection Systems (IDS) at Al Dhafra AB.</p> <p>Air Base Ground Defense, (ABGD): FY18 funds automated tactical/expeditionary equipment that is required to provide robust force protection capabilities worldwide; flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations, advanced technology force multipliers to include: night vision and thermal imagery equipment, counter sniper/battery capabilities, ground weapons, target acquisition radar, inter operable tactical communications, [required C3 and protective standoff equipment for]wheeled tactical [non-tactical], armored [un-armored] vehicles, tactical sensors systems, and unit/personnel protective field equipment,.</p> <p>PE 0207589F Base Physical Security Systems (BPSS) FY18 funding procures BPSS programs to include the Integrated Base Defense Security System programs (IBDSS and various acquisition blocks), and Counter-Small UAS capabilities. These activities do the following: reduces the risk to AF personnel; nuclear (PL-1N), and non-nuclear (PL 1-4) assets (weapon systems, aircraft, command &amp; control systems, etc.) and facilities (hangars, SCIFs, etc.) at AF and ANG installations globally. DoD downsizing, reductions in forward basing, and aircraft technology advances evolved AF weapons systems into increasingly valuable national power projection capabilities. However, the security afforded most AF aircraft, weapon systems, other critical resources, and associated personnel and facilities in terms of equipment or manpower has not kept pace with the changing world environment, state-of-the-art technology and potential threats. The emergence of Remotely Piloted Aircraft (RPA) has led to additional command, control and communications nodes that require commensurate protection level security efforts to enable effective Air Force power projection. Force Protection BPSS projects support long-term physical security requirements which allow installation commanders and security forces to adapt to, and counter, enduring and emergent threats to high priority assets in accordance with home station and the Aerospace Expeditionary Force concept.</p> <p>PE 0208047F Antiterrorism - P-40A PE 0208047F: ANTI-TERRORISM Tactical and Expeditionary Security Systems: FY18 funds antiterrorism activities for the Air Force (AF). Primarily, this line funds the AF's only perimeter installation access control system, the Defense Biometrics Identification System (DBIDS). It also funds mitigation efforts for AF vulnerabilities identified in AF and Joint higher headquarters inspections and Vulnerability Assessments (VAs), procurement of intrusion detection systems which greatly enhance the effectiveness of AF antiterrorism program efforts to detect, deter, and defend service members, civilian employees, family members, facilities, and other AF resources around the globe against terrorist attacks.</p> <p>PE 0208534F Command Support - Tactical Air Forces - P-40A FY18 funding is required to procure items for Command Support for Tactical Air Forces. Requesting \$3m in Overseas Contingency Operations (OCO) funds.</p> <p>PE 0502625F Air Base Security Forces (ANG) - P-40A No FY18 funding requested.</p> <p><b>Efforts with funding starting in FY 2019 through FY 2022 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:</b></p>		
(a) FY 2019 Cost Delta: 100.090 million		



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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0207589F	<b>Other Related Program Elements:</b> 0603287F, 0604287F
<b>Line Item MDAP/MAIS Code:</b> N/A		

- (b) FY 2020 Cost Delta: 83.950 million
- (c) FY 2021 Cost Delta: 57.921 million
- (d) FY 2022 Cost Delta: 58.966 million
- (e) FY Total Cost Delta: 931.886 million

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Aggregated Items Title:** Air-Launched Cruise Missile (ALCM)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
AIR LAUNCHED CRUISE MISSILE (ALCM) SECURITY SYSTEMS	A		-	-	-	-	-	1.908	-	-	1.710	-	-	1.757	-	-	0.000	-	-	1.757
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>1.908</b>	-	-	<b>1.710</b>	-	-	<b>1.757</b>	-	-	<b>0.000</b>	-	-	<b>1.757</b>
<b>Total</b>			-	-	-	-	-	<b>1.908</b>	-	-	<b>1.710</b>	-	-	<b>1.757</b>	-	-	<b>0.000</b>	-	-	<b>1.757</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Aggregated Items Title:** Minuteman Squadrons

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Minuteman Security Equipment	A		-	-	-	-	-	0.814	-	-	0.730	-	-	0.751	-	-	0.000	-	-	0.751
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.814</b>	-	-	<b>0.730</b>	-	-	<b>0.751</b>	-	-	<b>0.000</b>	-	-	<b>0.751</b>
<b>Total</b>			-	-	-	-	-	<b>0.814</b>	-	-	<b>0.730</b>	-	-	<b>0.751</b>	-	-	<b>0.000</b>	-	-	<b>0.751</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Aggregated Items Title:** Air Base Ground Defense

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Air Force Tactical Security Equipment	A		-	-	-	23.420	1	23.420	-	-	12.147	-	-	4.774	-	-	0.000	-	-	4.774
enhanced AB Detection Systems	A		-	-	-	-	-	-	1.000	15	15.000	-	-	-	-	-	0.000	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	23.420	-	-	27.147	-	-	4.774	-	-	0.000	-	-	4.774
<b>Total</b>			-	-	-	-	-	23.420	-	-	27.147	-	-	4.774	-	-	0.000	-	-	4.774

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Aggregated Modification Items Title:</b> Base Physical Security Systems
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Item Number / Title	ID CD	MDAP/ MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
EUJUON / EUCOM JUON			-	-	-	-	-	-	-	-	76.000	-	-	-	-	-	-	-	-	
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>76.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
EUJUON / EUCOM JUON	Bases	Capability Improvement

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Modification Number / Title:</b> 1 / Base Physical Security Systems

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)	-	63.291	18.613	34.408	0.000	34.408	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	63.291	18.613	34.408	0.000	34.408	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>63.291</b>	<b>18.613</b>	<b>34.408</b>	<b>0.000</b>	<b>34.408</b>	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

INTEGRATED BASE DEFENSE SECURITY SYSTEM (IBDSS): Reduces the risk to AF personnel; nuclear (PL-1N), and non-nuclear (PL 1-4) assets (weapon systems, aircraft, command & control systems, etc.) and facilities (hangars, SCIFs, etc.) at AF and ANG installations globally. DoD downsizing, reductions in forward basing, and aircraft technology advances evolved AF weapons systems into increasingly valuable national power projection capabilities. However, the security afforded most AF aircraft, weapon systems, other critical resources, and associated personnel and facilities in terms of equipment or manpower has not kept pace with the changing world environment, state-of-the-art technology and potential threats. The emergence of Remotely Piloted Aircraft (RPA) has led to additional command, control and communications nodes that require commensurate protection level security efforts to enable effective Air Force power projection. Force Protection BPSS projects support long-term physical security requirements which allow installation commanders and security forces to adapt to, and counter, enduring and emergent threats to high priority assets in accordance with home station and the Aerospace Expeditionary Force concept. This continuing effort was previously named Base Physical Security Systems and is not a New Start.

INTEGRATED BASE DEFENSE SECURITY SYSTEM (IBDSS): FY18 Funding is provided for procurement, design & engineering, modeling & simulation, infrastructure and allied support, installation, integration, training, acceptance testing, Interim Contractor Support (ICS) and interim spares for Base Physical Security Systems (BPSS) Intrusion Detection Systems (IDS). The funding also procures, installs and sustains a variety of electronic security alarms, sensors, and related systems to detect and provide early warning of potential threats against Air Force Protection Level (PL) 1,2,3, and 4 mission critical assets. Funding also supports the Nuclear (PL-1N) Weapon Storage Areas (WSAs) located throughout the CONUS and vault storage areas at main operating bases in Europe to meet long term physical security requirements in the face of enduring and emerging threats. This also includes upgrading existing system to ensure required capability for vault storage areas and associated intrusion detection, access control and assessment systems requirements, In Accordance With (IAW) USAF, EUCOM and NATO/SHAPE requirements. The funds also provide for upgrades, refurbishment, replacement or installation of new fences (required for sensor platforms) and/or lighting systems (to support the surveillance/assessment functions). Due to world-wide operational mission events, quantities are subject to change.

We are currently restructuring IBDSS into discrete block upgrades.

**Milestone/Development Status**

For Force Protection Commercial Off The Shelf (FP COTS) market research, evaluation and testing. The FP COTS testing applies to all available technologies (delay, denial, detection, assessment, communication display, access control and power) which are considered effective for AF physical security use. This program supports the maintenance and test support at Site C 3 and the Cold Weather Test Site (CWTS), as annotated in DoD Directive 3200.11, listing the 46th Test Wing (TW) as a Major Range and Test facility, conducting developmental and operational testing as the primary mission.

Continuing COTS and Modified COTS for system equipment as it becomes obsolete.

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>										<b>Date: May 2017</b>			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4					<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System					<b>Modification Number / Title:</b> 1 / Base Physical Security Systems			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> Bases				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0603287F, 0604287F					
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)	
<b>Procurement</b>													
<i>Modification Item 1 of 1: Physical Security Systems</i>													
B Kits													
Recurring													
Physical Security Systems:EQUIPMENT Group B (Active)	- / -	11 / 4.025	2 / 4.071	2 / 7.994	- / -	2 / 7.994	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / 4.025	- / 4.071	- / 7.994	- / -	- / 7.994	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Physical Security Systems</i>	- / -	- / 4.025	- / 4.071	- / 7.994	- / -	- / 7.994	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 4.025	- / 4.071	- / 7.994	- / -	- / 7.994	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Support (All Modification Items)</b>													
A&AS	- / -	0 / 2.154	- / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / -	0 / 3.250	- / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	0 / 0.446	- / 0.000	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Labor	- / -	0 / 3.667	- / 2.328	0 / 2.433	- / -	0 / 2.433	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	0 / 9.517	- / 2.328	0 / 2.433	- / -	0 / 2.433	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Installation</b>													
<i>Modification Item 1 of 1: Physical Security Systems</i>	- / -	11 / 49.749	2 / 12.214	2 / 23.981	- / -	2 / 23.981	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / -	11 / 49.749	2 / 12.214	2 / 23.981	- / -	2 / 23.981	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	63.291	18.613	34.408	0.000	34.408	-	-	-	-	-	-	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Modification Number / Title:</b> 1 / Base Physical Security Systems

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**Modification Item 1 of 1:** Physical Security Systems

**Manufacturer Information**

Manufacturer Name: Commercial Off The Shelf				Manufacturer Location: Multiple			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 8			
<b>Dates</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
Contract Dates	Jan 2016	Jan 2017	Jan 2018				
Delivery Dates	Sep 2016	Sep 2017	Sep 2018				

**Installation Information**

**Method of Implementation:** Contract Field Team

<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 49.749	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	2 / 12.214	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	2 / 23.981	- / -	2 / 23.981	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	11 / 49.749	2 / 12.214	2 / 23.981	- / -	2 / 23.981	- / -	- / -	- / -	- / -	- / -	- / -

**Installation Schedule**

	<b>PYS</b>	<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	0	-	2	7	2	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15	
Out	0	-	2	7	2	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15		



**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Modification Number / Title:</b> 2 / Counter small - UAS

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

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	70.500	136.000	0.000	136.000	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	70.500	136.000	0.000	136.000	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>0.000</b>	<b>70.500</b>	<b>136.000</b>	<b>0.000</b>	<b>136.000</b>	-	-	-	-	-	-

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

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

**Description:**

Counter Small Unmanned Aerial Systems (CsUAS) Joint Emergent Operational Need (JEON) is a rapid acquisition and deployment capability existing of full kill (detect, track, assess and defeat with various capabilities (fixed, mobile, portable and hand-held.) It is a layered system-of-systems using COTS technologies, integrated via GOTS C2 system.

Counter Small Unmanned Aerial Systems (CsUAS): FY18 Funding is provided for procurement, integration and installation of Mobile and Fixed Site.

**Milestone/Development Status**

Counter Small Unmanned Aerial Systems (CsUAS) JEON: Commercial off the Shelf (COTS) market research, evaluation, testing and integration. The testing applies to all available technologies (detect, track, assessment, defeat and C2 integration) which are considered effective for CsUAS use.

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>										<b>Date: May 2017</b>			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4					<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System					<b>Modification Number / Title:</b> 2 / Counter small - UAS			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> Bases				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0604287F, 0207589F					
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)	
<b>RDT&amp;E PE #</b>													
0207589F	- / -	- / -	- / 16.000	- / 10.500	- / -	- / 10.500	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Procurement</b>													
<b>Modification Item 1 of 1: UAS CSUAS1</b>													
B Kits													
Recurring													
UAS CSUAS1:EQUIPMENT Group B (Active)	- / -	- / -	3 / 59.925	16 / 90.050	- / -	16 / 90.050	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 59.925	- / 90.050	- / -	- / 90.050	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: UAS CSUAS1</i>	- / -	- / -	- / 59.925	- / 90.050	- / -	- / 90.050	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 59.925	- / 90.050	- / -	- / 90.050	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Support (All Modification Items)</b>													
OTHER GOVT	- / -	- / -	- / -	- / 11.174	- / -	- / 11.174	- / -	- / -	- / -	- / -	- / -	- / -	
A&AS	- / -	- / -	- / -	- / 11.755	- / -	- / 11.755	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Labor	- / -	- / -	- / -	- / 16.114	- / -	- / 16.114	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 10.174	- / -	- / 10.174	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / -	- / -	- / -	- / 10.842	- / -	- / 10.842	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 10.059	- / -	- / 10.059	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Installation</b>													
<b>Modification Item 1 of 1: UAS CSUAS1</b>	- / -	- / -	0 / 10.575	19 / 35.891	- / -	19 / 35.891	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / -	- / -	- / 10.575	19 / 35.891	- / -	19 / 35.891	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	0.000	70.500	136.000	0.000	136.000	-	-	-	-	-	-	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Modification Number / Title:</b> 2 / Counter small - UAS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**Modification Item 1 of 1:** UAS CSUAS1

**Manufacturer Information**

Manufacturer Name: Commercial Off The Shelf				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 8			
<b>Dates</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
Contract Dates		Jun 2017	Dec 2017				
Delivery Dates		Feb 2018	Aug 2018				

**Installation Information**

**Method of Implementation:** Contract Field Team

<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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 / 10.575	3 / 0.000	- / -	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	16 / 35.891	- / -	16 / 35.891	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	0 / 10.575	19 / 35.891	- / -	19 / 35.891	- / -	- / -	- / -	- / -	- / -	- / -

**Installation Schedule**

	<b>PYS</b>	<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	0	-	-	-	-	-	-	-	-	-	3	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	19	
Out	0	-	-	-	-	-	-	-	-	-	3	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	19		

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Modification Number / Title:</b> 3 / IBDSS-1

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	65.869	16.029	0.000	16.029	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	65.869	16.029	0.000	16.029	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>65.869</b>	<b>16.029</b>	<b>0.000</b>	<b>16.029</b>	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

INTEGRATED BASE DEFENSE SECURITY SYSTEM (IBDSS-1): Reduces the risk to AF personnel; nuclear (PL-1N), and non-nuclear (PL 1-4) assets (weapon systems, aircraft, command & control systems, etc.) and facilities (hangars, SCIFs, etc.) at AF and ANG installations globally. DoD downsizing, reductions in forward basing, and aircraft technology advances evolved AF weapons systems into increasingly valuable national power projection capabilities. However, the security afforded most AF aircraft, weapon systems, other critical resources, and associated personnel and facilities in terms of equipment or manpower has not kept pace with the changing world environment, state-of-the-art technology and potential threats. The emergence of Remotely Piloted Aircraft (RPA) has led to additional command, control and communications nodes that require commensurate protection level security efforts to enable effective Air Force power projection. Force Protection BPSS projects support long-term physical security requirements which allow installation commanders and security forces to adapt to, and counter, enduring and emergent threats to high priority assets in accordance with home station and the Aerospace Expeditionary Force concept. This continuing effort was previously named Base Physical Security Systems and is not a New Start.

INTEGRATED BASE DEFENSE SECURITY SYSTEM (IBDSS-1): FY18 Funding is provided for procurement, design & engineering, modeling & simulation, infrastructure and allied support, installation, integration, training, acceptance testing, Interim Contractor Support (ICS) and interim spares for Base Physical Security Systems (BPSS) Intrusion Detection Systems (IDS). The funding also procures, installs and sustains a variety of electronic security alarms, sensors, and related systems to detect and provide early warning of potential threats against Air Force Protection Level (PL) 1,2,3, and 4 mission critical assets. Funding also supports the Nuclear (PL-1N) Weapon Storage Areas (WSAs) located throughout the CONUS and vault storage areas at main operating bases in Europe to meet long term physical security requirements in the face of enduring and emerging threats. This also includes upgrading existing system to ensure required capability for vault storage areas and associated intrusion detection, access control and assessment systems requirements, In Accordance With (IAW) USAF, EUCOM and NATO/SHAPE requirements. The funds also provide for upgrades, refurbishment, replacement or installation of new fences (required for sensor platforms) and/or lighting systems (to support the surveillance/assessment functions). Due to world-wide operational mission events, quantities are subject to change.

We are currently restructuring IBDSS into discrete block upgrades.

**Milestone/Development Status**

For Force Protection Commercial Off The Shelf (FP COTS) market research, evaluation and testing. The FP COTS testing applies to all available technologies (delay, denial, detection, assessment, communication display, access control and power) which are considered effective for AF physical security use. This program supports the maintenance and test support at Site C 3 and the Cold Weather Test Site (CWTS), as annotated in DoD Directive 3200.11, listing the 46th Test Wing (TW) as a Major Range and Test facility, conducting developmental and operational testing as the primary mission.

Continuing COTS and Modified COTS for system equipment as it becomes obsolete.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>										<b>Date: May 2017</b>			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4					<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System					<b>Modification Number / Title:</b> 3 / IBDSS-1			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> Bases				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0603287F, 0604287F					
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)	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> IBDSS-1													
B Kits													
Recurring													
IBDSS-1:EQUIPMENT Group B (Active)	- / -	- / -	9 / 14.380	1 / 3.060	- / -	1 / 3.060	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 14.380	- / 3.060	- / -	- / 3.060	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: IBDSS-1</i>	- / -	- / -	- / 14.380	- / 3.060	- / -	- / 3.060	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 14.380	- / 3.060	- / -	- / 3.060	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Support (All Modification Items)</b>													
A&AS	- / -	- / -	- / 2.298	- / 1.957	- / -	- / 1.957	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / -	- / -	- / 3.331	- / 3.415	- / -	- / 3.415	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / -	- / 0.392	- / 0.392	- / -	- / 0.392	- / -	- / -	- / -	- / -	- / -	- / -	
ICS-Labor	- / -	- / -	- / 2.328	- / 2.733	- / -	- / 2.733	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / 8.349	- / 8.497	- / -	- / 8.497	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> IBDSS-1	- / -	- / -	9 / 43.140	1 / 4.472	- / -	1 / 4.472	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / -	- / -	9 / 43.140	1 / 4.472	- / -	1 / 4.472	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	0.000	65.869	16.029	0.000	16.029	-	-	-	-	-	-	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834130 / Air Force Physical Security System	<b>Modification Number / Title:</b> 3 / IBDSS-1

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**Modification Item 1 of 1:** IBDSS-1

**Manufacturer Information**

Manufacturer Name: Commercial Off The Shelf				Manufacturer Location: Varioius			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 8			
<b>Dates</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
Contract Dates		Jan 2017	Jan 2018				
Delivery Dates		Sep 2017	Sep 2018				

**Installation Information**

**Method of Implementation:** Contract Field Team

<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	- / -	- / -	9 / 43.140	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	1 / 4.472	- / -	1 / 4.472	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	9 / 43.140	1 / 4.472	- / -	1 / 4.472	- / -	- / -	- / -	- / -	- / -	- / -

**Installation Schedule**

	<b>PYS</b>	<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	0	-	-	-	-	-	9	-	-	-	1	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	0	18	
Out	0	-	-	-	-	-	9	-	-	-	1	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	0	18		

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Aggregated Items Title:** Antiterrorism

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Tactical and Expeditionary Security Systems	A		-	-	-	-	-	9.100	-	-	7.891	-	-	8.147	-	-	0.000	-	-	8.147
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>9.100</b>	-	-	<b>7.891</b>	-	-	<b>8.147</b>	-	-	<b>0.000</b>	-	-	<b>8.147</b>
<b>Total</b>			-	-	-	-	-	<b>9.100</b>	-	-	<b>7.891</b>	-	-	<b>8.147</b>	-	-	<b>0.000</b>	-	-	<b>8.147</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Aggregated Items Title:** Command Support - Tactical Air Forces

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Command Support Tactical Air Forces</b>																				
New Item	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	3.000	1	3.000	3.000	1	3.000
<b>Subtotal: Command Support Tactical Air Forces</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>3.000</b>	-	-	<b>3.000</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>3.000</b>	-	-	<b>3.000</b>

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



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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Aggregated Items Title:** Air Base Security Forces (ANG)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Air Base Security Forces (Guard)</b>																				
Air Base Security Forces	A		-	-	-	-	-	0.000	59.100	1	59.100	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Air Base Security Forces (Guard)</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>59.100</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>59.100</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

**Remarks:**  
 FY 2017 Request for Additional Appropriations": \$59.1 million PE52625F is required for Battlefield Airman includes Security Forces, Guardian Angels, Special Tactics, and Terminal Air Controllers. The items required include communication equipment, situational awareness equipment, personal protective equipment, night vision devices, weapons and weapons accessories, training devices, and explosive detection equipment.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
 Equip / BSA 4: Spcl Comm-Electronics Projects

**P-1 Line Item Number / Title:**  
 834190 / Combat Training Ranges

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0207429F **Other Related Program Elements:** 0207429F, 0604735F

**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	28.106	34.850	115.198	0.000	115.198	152.630 <sup>(a)</sup>	244.714 <sup>(b)</sup>	201.495 <sup>(c)</sup>	215.380 <sup>(d)</sup>	-	992.373 <sup>(e)</sup>
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	28.106	34.850	115.198	0.000	115.198	152.630	244.714	201.495	215.380	-	992.373
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>28.106</b>	<b>34.850</b>	<b>115.198</b>	<b>0.000</b>	<b>115.198</b>	<b>152.630</b>	<b>244.714</b>	<b>201.495</b>	<b>215.380</b>	-	<b>992.373</b>

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

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

**Description:**

The Combat Training Range program procures electronic telecommunication and instrumentation equipment and threat systems for training ranges worldwide to satisfy EW training capability requirements. It also procures range scoring systems and replacement equipment for electronics no longer logistically supportable. This P-1 line also procures Target Control System (TCS) ground subsystems for target drones.

**PE 0207429F COMBAT TRAINING RANGE EQUIPMENT**

**JOINT THREAT EMITTER (JTE):** The Joint Threat Emitter is designed to train aircrews to survive in a combat environment against Surface-to-Air Missile (SAM) and Anti-Aircraft Artillery (AAA) threats. The JTE simulates a range of threat signals, in multiple emitter kits, which interact with the aircraft Radar Warning Receiver and Electronic Countermeasure system to provide realistic Electronic Warfare training environments for pilots and crew members. The JTE is intended to reduce range manpower and resource requirements by replacing legacy systems as they face increasing supportability issues. The JTE leverages Commercial-Off-The Shelf (COTS) where possible to provide digital signal generation and feedback across its range of threats. The JTE system uses a command-and-control unit (C2U) to operate a Threat Emitter Unit (TEU) producing a realistic threat environment for 4th and 5th Generation aircraft. Funding will also be used to purchase services applicable to the acquisition, site activation and implementation of the ground system including range site surveys, installation and training. The program also procures modifications for obsolete components for the fielded JTE fleet to extend their serviceable life. Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

**RANGE EQUIPMENT:** This effort delivers range infrastructure and equipment. One such effort is the Joint Advanced Weapon Scoring System (JAWSS) program, which consists of Navy-developed scoring systems that upgrade the weapon (bombing and gunnery) and laser spot scoring on ranges. The equipment provide multiple new capabilities, to include scoring of day or night operations, production of a data stream with immediate displays, and results transmission to the pilot providing immediate feedback previously unavailable to aircrew. Other Electronic Warfare (EW) threat subsystems such as noise and spoofing jammers as well as radar and detection systems, data link connectivity and target shells will be procured in order to monitor and control an extended, realistic target environment for simulated ordnance delivery and aircrew training for airborne laser designators.

**RANGE COMMUNICATIONS:** The Range Communication (RIMCOM) program provides communication systems to connect various simulated surface-to-air (SAM) threat systems on Air Force ranges to simulate an integrated air defense system (IADS) and to provide blue force command and control for range operations. Infrastructure modernization includes replacing obsolete equipment, establishing a common infrastructure to support a future Live Mission Operations Center (LMOC) capability enabling improved mission debriefs and Live, Virtual, Constructive (LVC) aircrew training, and standardization of all training range communications systems to support LVC training missions. This program focuses on procurement of range communication infrastructure equipment, including fiber optic cabling, microwave, UHF, and VHF radios and antennas, data links and repeater stations, power subsystems, control systems, and cryptological equipment for unclassified and secure communications for all Combat Training Ranges, in addition

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
 Equip / BSA 4: Spcl Comm-Electronics Projects

**P-1 Line Item Number / Title:**  
 834190 / Combat Training Ranges

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0207429F **Other Related Program Elements:** 0207429F, 0604735F

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

to studies, analysis, and integration efforts for range command and control, LVC training, and enhanced debrief capabilities. Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

LEGACY SYSTEMS: This program procures modifications for multiple obsolete legacy range threat systems (RTS) to extend their serviceable life. Legacy RTS including Miniature Multiple Threat Emitter System (Mini-MUTES); Multiple Threat Emitter System (MUTES); Modular Threat Emitter (MTE); Tactical Range Threat Generator (TRTG); Unmanned Threat Emitter (UMTE); and Band Simulator (Band Sim); and their associated mission support equipment/software. Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

COMMON ELECTRONIC ATTACK RECEIVER: This program procures a common electronic attack receiver (CEAR) to replace the obsolete electronic attack receivers (EAR) on Legacy Threat Systems such as the Unmanned Threat Emitter (UMTE), the Joint Threat Emitter (JTE), and the Miniature-Multiple Unmanned Threat Emitter System (Mini-MUTES). The CEAR provides real-time and recorded Electronic Warfare feedback to Combat Air Force (CAF) aircrews, improving their survivability in anti-access/area denial combat environments.

PE 0305116F AERIAL TARGETS

TARGET CONTROL SYSTEMS (TCS): Data Link System Replacement (DLSr): The current Data Link system units in use at Tyndall AFB contain many obsolete parts and are no longer repairable due to lack of replacement parts. Repairs are made today through cannibalization of other units currently in use or intended as backup units, and the population of these units is becoming depleted with less than 3 "full up spares" left. The DLSr will be compatible with legacy targets operation on the Tyndall range. The DLSr will integrate into current Gulf Range Drone Control System (GRDCS) system. The DLSr will be able to be remotely configured to function as a relay, master, or slave to better enable the dynamic weapon system evaluation program (WSEP) environment and incorporate advancements in targets such as the QF-16.

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	3	1	8	-	8	-	-	-	-
	Total Obligation Authority	25.672	34.850	105.654	-	105.654	11.826	-	-	-
AFNG	Quantity	-	-	2	-	2	-	-	-	-
	Total Obligation Authority	2.434	-	9.544	-	9.544	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.000	-	0.000	-	-	-	-
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	<b>3</b>	<b>1</b>	<b>10</b>	<b>-</b>	<b>10</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>28.106</b>	<b>34.850</b>	<b>115.198</b>	<b>-</b>	<b>115.198</b>	<b>11.826</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834190 / Combat Training Ranges

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0207429F **Other Related Program Elements:** 0207429F, 0604735F

**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-5	JTE	P-5a	B		- / -	3 / 17.455	1 / 3.615	10 / 54.014	- / -	10 / 54.014
P-5	Range Equipment		A		- / -	- / 0.000	- / 1.371	- / 5.370	- / -	- / 5.370
P-5	Range Communications		A		- / -	- / -	- / 25.964	- / 52.330	- / -	- / 52.330
P-40a	Combat Training Range Equipment				- / 0.000	- / 10.651	- / 3.900	- / 3.484	- / 0.000	- / 3.484
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 28.106</b>	<b>- / 34.850</b>	<b>- / 115.198</b>	<b>- / 0.000</b>	<b>- / 115.198</b>

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

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

**Justification:**  
 JOINT THREAT EMITTER (JTE): FY18 funding requested is to procure additional JTE threat emitter units and fixed command and control units and the associated equipment.

RANGE COMMUNICATIONS (RIMCOM): FY18 funding is requested for range communications equipment to provide an integrated air defense system (IADS) capability on Air Force ranges. FY18 expenditures will focus on continued investment in enabling equipment, studies and analyses to support integration efforts for a future Live Mission Operations Center (LMOC) capability, as well as procurement of equipment for all combat training ranges.

RANGE EQUIPMENT: FY18 funding requested to replace equipment that is no longer logistically supportable.

COMMON ELECTRONIC ATTACK RECEIVER: FY18 funding requested to procure additional CEARs to modify UMTEs and Mini-MUTES emitter systems to replace the obsolete electronic attack receivers.

PE0305116F AERIAL TARGETS

TARGET CONTROL SYSTEMS (TCS): No FY18 funding requested.

**Efforts with funding starting in FY 2019 through FY 2022 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:**

- (a) FY 2019 Cost Delta: 152.630 million
- (b) FY 2020 Cost Delta: 244.714 million
- (c) FY 2021 Cost Delta: 201.495 million
- (d) FY 2022 Cost Delta: 215.380 million
- (e) FY Total Cost Delta: 992.373 million

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**Exhibit P-5, Cost Analysis: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> - / JTE
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**ID Code** (A=Service Ready, B=Not Service Ready) : B **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)	-	3	1	10	-	10
Gross/Weapon System Cost (\$ in Millions)	-	17.455	3.615	54.014	-	54.014
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	17.455	3.615	54.014	-	54.014
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>17.455</b>	<b>3.615</b>	<b>54.014</b>	-	<b>54.014</b>

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	5.818	3.615	5.401	-	5.401

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - JTE Cost																		
Recurring Cost																		
Joint Threat Emitter (JTE) Units <sup>(†)</sup>	-	-	-	6.997	2	13.994	-	-	-	7.689	6	46.134	-	-	-	7.689	6	46.134
JTE Command Control Unit	-	-	-	1.306	1	1.306	1.490	1	1.490	1.395	4	5.580	-	-	-	1.395	4	5.580
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	15.300	-	-	1.490	-	-	51.714	-	-	-	-	-	51.714
<i>Subtotal: Hardware - JTE Cost</i>	-	-	-	-	-	15.300	-	-	1.490	-	-	51.714	-	-	-	-	-	51.714
Support - JTE Cost																		
A&AS (PMA)	-	-	-	-	-	0.750	-	-	0.750	-	-	0.750	-	-	-	-	-	0.750
A&AS (DMS)	-	-	-	-	-	1.100	-	-	1.065	-	-	1.087	-	-	-	-	-	1.087
PMA	-	-	-	-	-	0.100	-	-	0.100	-	-	0.142	-	-	-	-	-	0.142
Support	-	-	-	-	-	0.205	-	-	0.210	-	-	0.321	-	-	-	-	-	0.321
<i>Subtotal: Support - JTE Cost</i>	-	-	-	-	-	2.155	-	-	2.125	-	-	2.300	-	-	-	-	-	2.300
<b>Gross/Weapon System Cost</b>	-	-	-	<b>5.818</b>	<b>3</b>	<b>17.455</b>	<b>3.615</b>	<b>1</b>	<b>3.615</b>	<b>5.401</b>	<b>10</b>	<b>54.014</b>	-	-	-	<b>5.401</b>	<b>10</b>	<b>54.014</b>

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	3	1	8	-	8
	Total Obligation Authority	17.455	3.615	44.470	-	44.470
AFNG	Quantity	-	-	2	-	2

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**Exhibit P-5, Cost Analysis: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> - / JTE
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**ID Code** (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
<b>Secondary Distribution</b>						
	Total Obligation Authority	-	-	9.544	-	9.544
<b>Total:</b>	<b>Quantity</b>	<b>3</b>	<b>1</b>	<b>10</b>	<b>-</b>	<b>10</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>17.455</b>	<b>3.615</b>	<b>54.014</b>	<b>-</b>	<b>54.014</b>

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

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**Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> - / JTE
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Joint Threat Emitter (JTE) Units		2016	Northrop Grumman Amherst Systems / Buffalo, NY	C / FFP	AFLCMC Hill AFB	Dec 2016	Apr 2018	2	6.997	N	Oct 2016	
Joint Threat Emitter (JTE) Units		2018	Northrop Grumman Amherst Systems / Buffalo, NY	C / FFP	AFLCMC Hill AFB	Dec 2017	Apr 2019	6	7.689	N	Oct 2016	



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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> - / Range Equipment

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 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	1.371	5.370	-	5.370
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.000	1.371	5.370	-	5.370
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>0.000</b>	<b>1.371</b>	<b>5.370</b>	-	<b>5.370</b>

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

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

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Range Equipment Cost																		
Recurring Cost																		
Range Equipment	-	-	-	-	-	0.000	-	-	1.371	-	-	5.370	-	-	-	-	-	5.370
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	1.371	-	-	5.370	-	-	-	-	-	5.370
<i>Subtotal: Hardware - Range Equipment Cost</i>	-	-	-	-	-	0.000	-	-	1.371	-	-	5.370	-	-	-	-	-	5.370
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	0.000	-	-	1.371	-	-	5.370	-	-	-	-	-	5.370

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF					
Quantity	-	-	-	-	-
Total Obligation Authority	0.000	1.371	5.370	-	5.370
<b>Total: Secondary Distribution</b>					
Quantity	-	-	-	-	-
Total Obligation Authority	0.000	1.371	5.370	-	5.370

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges	<b>Item Number / Title [DODIC]:</b> - / Range Communications

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	25.964	52.330	-	52.330
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	25.964	52.330	-	52.330
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>25.964</b>	<b>52.330</b>	-	<b>52.330</b>

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

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

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - RIMCOM/Range Equipment Cost</b>																		
Recurring Cost																		
Radios	-	-	-	-	-	-	0.049	132	6.473	0.033	61	2.013	-	-	-	0.033	61	2.013
Datalink	-	-	-	-	-	-	0.125	2	0.250	-	-	-	-	-	-	-	-	-
IADS Networks	-	-	-	-	-	-	1.000	4	4.000	-	-	-	-	-	-	-	-	-
Fiber Optics	-	-	-	-	-	-	0.234	7	1.637	1.200	1	1.200	-	-	-	1.200	1	1.200
Datalink/EW Jammers	-	-	-	-	-	-	1.400	5	7.000	3.750	2	7.500	-	-	-	3.750	2	7.500
Test Calibration Equipment	-	-	-	-	-	-	0.776	8	6.208	-	-	-	-	-	-	-	-	-
Range/ Mission Control	-	-	-	-	-	-	-	-	-	2.690	10	26.900	-	-	-	2.690	10	26.900
Radars	-	-	-	-	-	-	-	-	-	3.000	2	6.000	-	-	-	3.000	2	6.000
Security Systems	-	-	-	-	-	-	-	-	-	6.000	1	6.000	-	-	-	6.000	1	6.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	25.568	-	-	49.613	-	-	-	-	49.613
<i>Subtotal: Hardware - RIMCOM/Range Equipment Cost</i>	-	-	-	-	-	-	-	-	25.568	-	-	49.613	-	-	-	-	-	49.613
<b>Support - RIMCOM/Range Equipment Cost</b>																		
A&AS	-	-	-	-	-	-	-	-	0.300	-	-	2.590	-	-	-	-	-	2.590
PMA	-	-	-	-	-	-	-	-	0.096	-	-	0.127	-	-	-	-	-	0.127
<i>Subtotal: Support - RIMCOM/Range Equipment Cost</i>	-	-	-	-	-	-	-	-	0.396	-	-	2.717	-	-	-	-	-	2.717

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>													<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834190 / Combat Training Ranges						<b>Item Number / Title [DODIC]:</b> - / Range Communications						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>									

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	25.964	-	-	52.330	-	-	-	-	-	52.330

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	-	25.964	52.330	-	52.330
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	25.964	52.330	-	52.330

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**Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834190 / Combat Training Ranges **Aggregated Modification Items Title:** Combat Training Range Equipment

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
CTR01 / Combat Training Ranges Joint Threat Emitter			-	-	-	-	-	3.651	-	-	-	-	-	3.184	-	-	-	-	-	3.184
<i>Secondary Distribution</i>																				
AF				-	-		-	1.217		-	-		-	3.184		-	-		-	3.184
AFNG				-	-		-	2.434		-	-		-	-		-	-		-	-
CTR02 / CEAR UMTE Mod			-	-	-	-	-	7.000	-	-	3.900	-	-	0.150	-	-	-	-	-	0.150
<i>Secondary Distribution</i>																				
AF				-	-		-	7.000		-	3.900		-	0.150		-	-		-	0.150
CTR03 / CEAR Mini MUTES Mod			-	-	-	-	-	-	-	-	-	-	-	0.150	-	-	-	-	-	0.150
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		-	0.150		-	-		-	0.150
AFNG				-	-		-	-		-	-		-	0.000		-	-		-	0.000
AFR				-	-		-	-		-	-		-	0.000		-	-		-	0.000
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>10.651</b>	-	-	<b>3.900</b>	-	-	<b>3.484</b>	-	-	<b>0.000</b>	-	-	<b>3.484</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
CTR01 / Combat Training Ranges Joint Threat Emitter	JointThreatEmitter	Service Life Extension
CTR02 / CEAR UMTE Mod	CombatTrainingRange	Capability Improvement
CTR03 / CEAR Mini MUTES Mod	CombatTrainingRange	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:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
 Equip / BSA 4: Spcl Comm-Electronics Projects

**P-1 Line Item Number / Title:**  
 834210 / Minimum Essential Emergency Comm N

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0303131F **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> )	-	5.232	198.925	0.292	0.000	0.292	172.062	25.024	25.477	25.937	-	452.949
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	5.232	198.925	0.292	0.000	0.292	172.062	25.024	25.477	25.937	-	452.949
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>5.232</b>	<b>198.925</b>	<b>0.292</b>	<b>0.000</b>	<b>0.292</b>	<b>172.062</b>	<b>25.024</b>	<b>25.477</b>	<b>25.937</b>	-	<b>452.949</b>

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

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

**Description:**

The Minimum Essential Emergency Communications Network (MEECN) portfolio modernizes the systems necessary to effectively provide assured communications connectivity between the President and the strategic deterrence forces in stressed environments.

Global Aircrew Strategic Network Terminal (Global ASNT) replaces inadequate, unsustainable strategic communications equipment at bomber, tanker and reconnaissance Wing Command Posts (WCPs), Nuclear Task Forces, Munitions Support Squadrons (MUNSS), and for Mobile Support Teams (MSTs). Global ASNT is a ground-based system that will provide survivable, secure communication paths to receive Emergency Action Messages (EAMs), Force Management messages, and Force Direction messages and disseminate them to bomber, tanker, and reconnaissance aircrews.

Global ASNT is being fielded in separate capability increments.

Global ASNT Inc 1 fields required Extremely High Frequency/Advanced Extremely High Frequency (EHF/AEHF) capabilities and replaces inadequate, unsustainable strategic mobile and fixed-site Single Channel Anti-jam Man-Portable (SCAMP) terminals and Secure, Mobile, Anti-Jam, Reliable, Tactical - Terminal (SMART-T) equipment. FY15 was the first year of Increment 1 procurement funding to support pre-production activities. The majority of pre-production support activities will be conducted in FY17 and FY18 in advance of the Milestone C decision in 2QFY19.

Global ASNT Inc 2 delivers an Aircrew Alerting System (AAS) consisting of personal and general alerting equipment, and High Frequency (HF) and Ultra High Frequency (UHF) capabilities. Increment 2 replaces inadequate, unsustainable Electromagnetic Pulse Hardened Dispersal Communication (EHDC) systems and Aircrew Alerting Communications Electromagnetic Pulse (AACE) systems.

Common Very Low Frequency (VLF)/Low Frequency (LF) Receiver (CVR) Increment 2 (CVR Inc 2) will deliver a survivable, beyond-line-of-sight path for Emergency Action Message (EAM) reception. CVR Inc 2 will produce a VLF/LF receiver to integrate into current and future airborne and ground based nodes and to improve system performance and reduce supportability costs through commonality. CVR Inc 2 procurement funding is planned to begin in FY20 and has moved from OPAF (3080) to APAF (3010) funding.

Funding for this exhibit is contained in PE 0303131F.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
 Equip / BSA 4: Spcl Comm-Electronics Projects

**P-1 Line Item Number / Title:**  
 834240 / Wide Area Surveillance (WAS)

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604445F **Other Related Program Elements:** 0604445F

**Line Item MDAP/MAIS Code:** 519

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	6.943	62.087	0.000	62.087	77.760	24.395	24.887	25.390	-	221.462
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	6.943	62.087	0.000	62.087	77.760	24.395	24.887	25.390	-	221.462
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.000</b>	<b>6.943</b>	<b>62.087</b>	<b>0.000</b>	<b>62.087</b>	<b>77.760</b>	<b>24.395</b>	<b>24.887</b>	<b>25.390</b>	-	<b>221.462</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	3.030	3.030	3.030	-	9.090
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Wide Area Surveillance (WAS) consists of two advanced sensor systems, the Stateside Affordable Radar System (STARS) and Scorpion, incorporated into a single WAS System. Based on existing technological capabilities, WAS will detect/track low, slow and other asymmetrical threats in the airspace and meet the user needs of sensing stressing airborne targets in complex environments with affordable sensors. The sensor outputs will be incorporated into the Battle Control Systems-Fixed (BCS-F) air picture and utilized as the North American Aerospace Defense Command/ Northern Command (NORAD/ NORTHCOM) Command and Control (C2) air surveillance system of record.

The WAS strategy is a single step acquisition approach for full capability to develop, produce, and field highly capable and sustainable advanced sensors in the National Capitol Region. In FY18, the WAS program management office plans to award Production and Interim Contractor Support (ICS) Contracts for both STARS and Scorpion systems.

Funding for this exhibit contained in PE 0604445F, Wide Area Surveillance.

In FY17 Wide Area Surveillance 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:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834240 / Wide Area Surveillance (WAS)

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604445F **Other Related Program Elements:** 0604445F

**Line Item MDAP/MAIS Code:** 519

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-5	Wide Area Surveillance		B		- / 0.000	- / 0.000	- / 6.943	- / 62.087	- / 0.000	- / 62.087
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 0.000</b>	<b>- / 6.943</b>	<b>- / 62.087</b>	<b>- / 0.000</b>	<b>- / 62.087</b>

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

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

**Justification:**

- FY18 funds will procure, produce and field operational Stateside Affordable Radar System (STARS) and Scorpion sensors, provide Interim Contractor Support (ICS) for fielded sensors, and procure additional system monitoring capabilities in accordance with North American Aerospace Defense Command (NORAD) and U.S. Northern Command (NORTHCOM) Homeland Defense Design.
- FY18 Program Management Administration (PMA) funds will provide management, engineering and technical support for the program office.
- Some key components of each Wide Area Surveillance (WAS) site have long lead time production items.
- This funding request supports potential Diminishing Manufacturing Sources (DMS) and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.



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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834240 / Wide Area Surveillance (WAS)	<b>Item Number / Title [DODIC]:</b> - / Wide Area Surveillance

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 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	6.943	62.087	0.000	62.087
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	6.943	62.087	0.000	62.087
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.000</b>	<b>6.943</b>	<b>62.087</b>	<b>0.000</b>	<b>62.087</b>

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

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

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Wide Area Surveillance Cost</b>																		
Recurring Cost																		
Prime Contractor	-	-	0.000	-	-	0.000	-	-	5.443	-	-	56.267	-	-	-	-	-	56.267
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	5.443	-	-	56.267	-	-	-	-	-	56.267
<i>Subtotal: Hardware - Wide Area Surveillance Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>5.443</b>	-	-	<b>56.267</b>	-	-	-	-	-	<b>56.267</b>
<b>Support - Wide Area Surveillance Cost</b>																		
DMS Support	-	-	0.000	-	-	0.000	-	-	-	-	-	0.762	-	-	-	-	-	0.762
PMA Contractor Services	-	-	0.000	-	-	0.000	-	-	1.500	-	-	5.058	-	-	0.000	-	-	5.058
<i>Subtotal: Support - Wide Area Surveillance Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>1.500</b>	-	-	<b>5.820</b>	-	-	<b>0.000</b>	-	-	<b>5.820</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>6.943</b>	-	-	<b>62.087</b>	-	-	<b>0.000</b>	-	-	<b>62.087</b>

**Remarks:**

The quantity of Wide Area Surveillance (WAS) systems is classified. Details provided upon request. Contact Major Willie Mims (SAF/AQID), 202-404-3331, for additional information.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834320 / C3 Countermeasures

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

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

Resource Summary	Prior Years	FY 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> )	-	7.453	20.200	37.764	0.000	37.764	33.892	30.206	30.409	29.303	-	189.227
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	7.453	20.200	37.764	0.000	37.764	33.892	30.206	30.409	29.303	-	189.227
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>7.453</b>	<b>20.200</b>	<b>37.764</b>	<b>0.000</b>	<b>37.764</b>	<b>33.892</b>	<b>30.206</b>	<b>30.409</b>	<b>29.303</b>	-	<b>189.227</b>

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

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

**Description:**

National Technical Nuclear Forensics PE 0207573F - P-40A  
 Continues efforts previously funded by OSD for Prompt Diagnostics. Procures terrestrially-based sensors and communications for prompt output signal detection and nuclear debris collection analysis and evaluation to support nuclear event attribution. Funding also includes procurement of technical data and any required follow on system support.

Electronic Warfare Integrated Reprogramming (EWIR) PE 0207439F - P-40A  
 DISTRIBUTED MISSION OPERATIONS AND THREAT CHANGE ANALYSIS: Conducted by the 453rd Electronic Warfare Squadron (453 EWS), EWIR provides analytical capabilities and reachback support for DoD acquisition, planning and mission execution activities. These capabilities ensure electronic warfare (EW) systems and integrated combat platforms correctly recognize and respond to enemy, friendly and noncombatant systems operating within the electromagnetic environment. The effort includes funds used to procure specialized information technology systems used to identify electromagnetic spectrum emitter changes that impact combat defensive and electronic warfare systems and to conduct detailed analyses in support of operational mission planning, tactics, techniques and procedures (TTP) development, acquisition and test & evaluation. These analyses provide the means to understand the performance of their systems in hostile environments, directly impacting the survivability of combat-coded USAF aircraft and aircrews. Funding for this exhibit contained in PE0207439F.

AF Offensive Cyberspace Operations PE 0208087F - P-40A  
 Provides for the innovation, test, support and deployment of Cyberspace solutions in the form of material and non-material Cyberspace network attack tools and exploits for USAF Offensive Cyberspace Operations (OCO) to include but not limited to USAF OCO units, the Cyber Mission Forces, COCOMs, and other authorized agencies. Funding procures specialized hardware/software necessary for real time deployment, exploit identification, tool development, and testing in an environment simulating real-world operational infrastructures and enclaves. Funding also is used for the upgrade and modification of the USAF operated cyber test and training range, operated by the 346th Test Squadron under the 688th Cyber Wing.

Funding for this exhibit contained in PE 0208087F

Detailed information on AF Offensive Cyber Operations remains classified and will be provided on a need-to-know basis. For further information, please contact AF/A2. This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

AF Defensive Cyberspace Operations PE 0208088F - P-40A

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>Defensive Cyber Operations provides focused, agile cyber defense forces to provide mission assurance by maneuvering within high-value, mission OEF networks and systems to assure unobstructed successful operations.</p> <p>Intel Data Applications PE 0208288F - P-40A Includes several subprograms: CONSTANT WEB, SENSOR SHADOW, Technical Electronic Intelligence (ELINT) Analytics/Tool Development and Operational Reconnaissance (Ops Recce) Capability, Analytics/Tool Development.</p> <p>*CONSTANT WEB is a database developed by the US Air Force's Intelligence Surveillance and Reconnaissance Agency (AFISRA) that contains information on both hostile and friendly C3 networks, units, and installations. It also provides limited criticality assessments of C3 elements.</p> <p>*SENSOR SHADOW is a Command and Control Warfare (C2W) and information tool designed to support strategic and operational planners. Funding provides upgrades of critical computers, processing systems, and infrastructure to support holistic Information Operations (IO) and nodal analysis in support of unique aspects of targeting that enables the shift from conventional to IW/C2W targeting.</p> <p>*Technical Electronic Intelligence (TechELINT) Analytics/Tool Development provides for the acquisition of new analytical software tools, storage and communications capability to allow the judicious processing, exploitation and dissemination of intercepted ELINT from US and allied systems.</p> <p>*Operational Reconnaissance (Ops Recce) Capability, Analytics/Tool Development provides for increased battlespace awareness through the use of sensors/platforms to achieve effects beyond what those sensors/platforms were originally designed.</p> <p>Air Base Ground Defense PE 0205788F - P-40A Ground based air defense capability designed to counter current and emerging threats to forward operation locations. Contact AF A3XY 703-614-0402 or A5RE 703-697-9393.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A

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	Electronic Warfare Integrated Reprogramming (EWIR)				- / -	- / 0.902	- / 1.581	- / 1.570	- / 0.000	- / 1.570
P-40a	National Technical Nuclear Forensics				- / -	- / 0.000	- / 5.852	- / 5.711	- / 0.000	- / 5.711
P-40a	Air Base Ground Defense				- / -	- / -	- / -	- / 13.124	- / -	- / 13.124
P-40a	AF Offensive Cyberspace Operations				- / -	- / 6.332	- / 11.774	- / 16.990	- / 0.000	- / 16.990
P-40a	AF Defensive Cyberspace Operations				- / -	- / 0.000	- / 0.620	- / -	- / -	- / -
P-40a	Intel Data Applications				- / -	- / 0.219	- / 0.373	- / 0.366	- / 0.000	- / 0.366
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 7.453</b>	<b>- / 20.200</b>	<b>- / 37.764</b>	<b>- / 0.000</b>	<b>- / 37.764</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.  
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 This program, C3 Countermeasures P-40A Item Program 1, is a new start.

National Technical Nuclear Forensics PE 0207573F - P-40A  
 FY17 funding procures terrestrially-based sensors and communications for prompt output signal detection and nuclear debris collection analysis and evaluation to support nuclear event attribution. Funding also includes procurement of technical data and any required follow on system support.

Electronic Warfare Integrated Reprogramming (EWIR) PE 0207439F - P-40A  
 FY17 funding will replace capital equipment for the electronic warfare (EW) Threat Change Analysis and Distributed Mission Operations infrastructure and databases. Specific equipment items and quantities may change due to mission needs.

AF Offensive Cyberspace Operations PE 0208087F - P-40A  
 FY18 funding procures computer, computer related memory storage, local and long-haul communications, infrastructure, and unique intelligence and analysis equipment. Details remain classified and will be provided on a need-to-know basis. For further information, please contact AF/A2.

AF Defensive Cyberspace Operations PE 0208088F - P-40A  
 FY17 OCO procures high-value, mission Operation Enduring Freedom (OEF) networks and systems to assure unobstructed successful operations.  
 FY17 funding totals include \$.620M appropriated for Overseas Contingency Operations.  
 No Budget Year FY18 funding requested.

Intel Data Applications PE 0208288F - P-40A  
 FY17 funding procures equipment to support ground processing functions associated with airborne operations, provide threat simulator validation and intel database development, and provide tactical network indications/warning, intrusion analysis and threat signature development.

Air Base Ground Defense PE 0205788F - P-40A  
 Ground based air defense capability designed to counter current and emerging threats to forward operation locations. Contact AF A3XY 703-614-0402 or A5RE 703-697-9393.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4							<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures								<b>Aggregated Items Title:</b> Electronic Warfare Integrated Reprogramming (EWIR)				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Client PCs	A		-	-	-	0.010	1	0.010	0.200	1	0.200	0.200	1	0.200	-	-	0.000	0.200	1	0.200
Computer Server	A		-	-	-	0.220	1	0.220	1.121	1	1.121	0.660	1	0.660	-	-	0.000	0.660	1	0.660
Data Storage System	A		-	-	-	0.472	1	0.472	0.150	1	0.150	0.505	1	0.505	-	-	0.000	0.505	1	0.505
Network Infrastructure	A		-	-	-	0.070	1	0.070	0.060	1	0.060	0.205	1	0.205	-	-	0.000	0.205	1	0.205
Tape Backup System	A		-	-	-	0.130	1	0.130	0.050	1	0.050	-	-	-	-	-	0.000	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.902</b>	-	-	<b>1.581</b>	-	-	<b>1.570</b>	-	-	<b>0.000</b>	-	-	<b>1.570</b>
<b>Total</b>			-	-	-	-	-	<b>0.902</b>	-	-	<b>1.581</b>	-	-	<b>1.570</b>	-	-	<b>0.000</b>	-	-	<b>1.570</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Aggregated Items Title:</b> National Technical Nuclear Forensics
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>National Technical Nuclear Forensics</b>																				
Nuclear Forensics - Prompt Diagnostics	A		-	-	-	-	-	0.000	-	-	5.852	-	-	5.711	-	-	0.000	-	-	5.711
<b>Subtotal: National Technical Nuclear Forensics</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>5.852</b>	-	-	<b>5.711</b>	-	-	<b>0.000</b>	-	-	<b>5.711</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>5.852</b>	-	-	<b>5.711</b>	-	-	<b>0.000</b>	-	-	<b>5.711</b>

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

**Remarks:**  
Continues efforts previously funded by OSD for Prompt Diagnostics. Procures terrestrially-based sensors and communications for prompt output signal detection and nuclear debris collection analysis and evaluation. Funding also includes procurement of technical data and any required follow on system support.



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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Aggregated Items Title:</b> Air Base Ground Defense
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>ABGD1</b>																				
Program 1	A		-	-	-	-	-	-	-	-	-	9.086	1	9.086	-	-	-	9.086	1	9.086
<b>Subtotal: ABGD1</b>			-	-	-	-	-	-	-	-	-	-	-	<b>9.086</b>	-	-	-	-	-	<b>9.086</b>
<b>ABGD2</b>																				
Program 2	A		-	-	-	-	-	-	-	-	-	4.038	1	4.038	-	-	-	4.038	1	4.038
<b>Subtotal: ABGD2</b>			-	-	-	-	-	-	-	-	-	-	-	<b>4.038</b>	-	-	-	-	-	<b>4.038</b>
<b>Total</b>			-	-	-	-	-	-	-	-	-	-	-	<b>13.124</b>	-	-	-	-	-	<b>13.124</b>

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

**Remarks:**  
Ground based air defense capability designed to counter current and emerging threats to forward operation locations. Contact AF A3XY 703-614-0402 or A5RE 703-697-9393.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834320 / C3 Countermeasures **Aggregated Items Title:** AF Offensive Cyberspace Operations

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>uncategorized</b>																				
Cyber Mission Platform (CMP) System	A		-	-	-	-	-	-	-	-	1.664	3	4.993	-	-	-	1.664	3	4.993	
Offensive Cyber Operations Support	A		-	-	-	-	6.332	-	-	11.774	-	-	11.997	-	-	0.000	-	-	11.997	
<b>Subtotal: uncategorized</b>			-	-	-	-	6.332	-	-	11.774	-	-	16.990	-	-	0.000	-	-	16.990	
<b>Total</b>			-	-	-	-	6.332	-	-	11.774	-	-	16.990	-	-	0.000	-	-	16.990	

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834320 / C3 Countermeasures	<b>Aggregated Items Title:</b> AF Defensive Cyberspace Operations
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Defensive Cyber Operations Support	A		-	-	-	-	-	0.000	-	-	0.620	-	-	-	-	-	-	-	-	-
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.620</b>	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.620</b>	-	-	-	-	-	-	-	-	-

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834320 / C3 Countermeasures **Aggregated Items Title:** Intel Data Applications

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
PE 0208288F INTEL DATA APPLICATIONS	A		-	-	-	-	-	0.219	-	-	0.373	-	-	0.366	-	-	0.000	-	-	0.366
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.219</b>	-	-	<b>0.373</b>	-	-	<b>0.366</b>	-	-	<b>0.000</b>	-	-	<b>0.366</b>
<b>Total</b>			-	-	-	-	-	<b>0.219</b>	-	-	<b>0.373</b>	-	-	<b>0.366</b>	-	-	<b>0.000</b>	-	-	<b>0.366</b>

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

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834430 / GCSS-AF Fos

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0708012F, 0708610F

**Line Item MDAP/MAIS Code:** 221

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> )	0.696	5.296	1.743	2.826	0.000	2.826	7.317	11.454	6.182	9.072	-	44.586
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.696	5.296	1.743	2.826	0.000	2.826	7.317	11.454	6.182	9.072	-	44.586
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.696</b>	<b>5.296</b>	<b>1.743</b>	<b>2.826</b>	<b>0.000</b>	<b>2.826</b>	<b>7.317</b>	<b>11.454</b>	<b>6.182</b>	<b>9.072</b>	-	<b>44.586</b>

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

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

**Description:**

Global Combat Support System (GCSS) is a family of information technology systems that provide integration and interoperability between combat support functions and command and control to support the operational needs of the warfighter. It directly supports Command, Control, Communication, Computers, and Information (C4I) for the warfighter and Chairman Joint Chiefs of Staff (CJCS) Joint Vision 2020. The GCSS-Air Force Family of Systems (FOS) includes standard base-level combat support applications which provide warfighters with a "one update-one time" processing environment. The following systems provide the key support foundation for the Air Force's global engagement strategy and evolution to DoD Joint Information Environment (JIE) leveraging Core Data Centers (CDCs) and DISA-brokered cloud capabilities through GCSS-AF.

PE 0708012F LOGISTICS SUPPORT ACTIVITY

CARGO MOVEMENT OPERATIONS SYSTEM (CMOS): CMOS supports base-level and theater distribution management. The system consist of the CMOS software operating in the DISA enclave and specific peripherals as a means to transact data. These peripherals consist of handheld terminals with CMOS specific software installed, docking stations, cables and thermal transfer printers configured to communicate with CMOS. This initiative supports the implementation of approximately 215 Army and Navy sites.management.

Funding for this exhibit contained in PE 0708012F.

PE 0708610F LOGISTICS INFORMATION TECHNOLOGY (LOGIT)

The Air Force logistics enterprise is comprised of multiple overarching functional areas, to include maintenance, repair and overhaul, end-to-end supply chain support, base supply inventories, and predictive analysis and forecasting. Enterprise Logistics Systems deliver integrated logistics information driving war winning decisions by shaping, acquiring, and sustaining warfighting IT capabilities and mission support. OPAF funding will be used for capital equipment replacement to include servers and will also be used to purchase multi-year software licenses.

Systems contained in these business areas include, but are not limited to, the Air Force Equipment Management System (AFEMS), Integrated Maintenance Data System (IMDS), Reliability and Maintainability Information System (REMIS), Combat Ammunitions System (CAS), Enhanced Maintenance Operations Center (EMOC), Aircraft Structural Integrity Management Information System (ASIMIS), Integrated Logistics System-Supply (ILS-S), Cargo Movement Operations System (CMOS), Stock Control System (SCS), Purchase Request Process System (PRPS), Automated Logistics Management Support System (ALMSS), Depot Maintenance Accounting and Production System (DMAPS), Enhanced Technical Information Management System (ETIMS), and Weapon System Management Information System (WSMIS).

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834430 / GCSS-AF Fos
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0708012F, 0708610F
<b>Line Item MDAP/MAIS Code:</b> 221		

Funding for this exhibit contained in PE 0708610F.

**Justification:**  
PE 0303141F GLOBAL COMBAT SUPPORT SYSTEM

No FY 18 funding requested.

PE 0708012F LOGISTICS SUPPORT ACTIVITY

CARGO MOVEMENT OPERATIONS SYSTEM: The FY18 procurement dollars procure the various mixes of hardware, software and licensing to install CMOS at 60 new sites.

PE 0708610F LOGISTICS INFORMATION TECHNOLOGY (LOGIT)

The Air Force logistics enterprise is comprised of multiple overarching functional areas, to include maintenance, repair and overhaul, end-to-end supply chain support, base supply inventories, and predictive analysis and forecasting. Enterprise Logistics Systems deliver integrated logistics information driving war winning decisions by shaping, acquiring, and sustaining warfighting IT capabilities and mission support. OPAF funding will be used for capital equipment replacement to include servers and will also be used to purchase multi-year software licenses.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects	<b>P-1 Line Item Number / Title:</b> 834470 / Defense Enterprise Accounting and Mgmt System
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N87

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> )	4.489	4.755	0.000	1.514	0.000	1.514	0.808	1.919	0.000	3.131	0.000	16.616
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	4.489	4.755	0.000	1.514	0.000	1.514	0.808	1.919	0.000	3.131	0.000	16.616
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>4.489</b>	<b>4.755</b>	<b>0.000</b>	<b>1.514</b>	<b>0.000</b>	<b>1.514</b>	<b>0.808</b>	<b>1.919</b>	<b>0.000</b>	<b>3.131</b>	<b>0.000</b>	<b>16.616</b>

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

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

**Description:**

To enhance transparency, in FY 2015 DEAMS Other Procurement Air Force (OPAF) funding was transferred from Weapon System Code (WSC) 834430, Global Combat Support System - Air Force Family of Systems (GCSS-AF FOS) to WSC 834470 DEAMS. Prior to FY 2015, DEAMS OPAF funding was shown in WSC 834430, GCSS-AF FOS.

Defense Enterprise Accounting and Management System (DEAMS) is a commercial-off-the-shelf (COTS), Oracle-based software implementation effort that will provide an auditable, modern accounting and finance system. DEAMS is a Joint United States Air Force (USAF) and United States Transportation Command (USTRANSCOM) Enterprise Resource Planning (ERP) Program that will replace many existing accounting and finance legacy systems and will provide core funds execution management functions consistent with financial management laws, regulations and policy, general ledger, funds management, payments, receivables, cost and revenues, and fiduciary reporting. DEAMS is compliant with the Clinger-Cohen Act, Business Enterprise Architecture (BEA), and integrates into Global Combat Support System-Air Force (GCSS-AF). When fully deployed, DEAMS will be key to Air Force compliance with the Financial Improvement and Audit Readiness (FIAR) requirement in the 2010 NDAA.

DEAMS Inc 1 is planned as:

- Release 1 - Air Mobility Command (AMC) without Transportation Working Capital Funds (TWCF)
- Release 2 - AMC with TWCF, Defense Finance and Accounting Service (DFAS) Rome
- Release 3 - Air Combat Command (ACC) and Air Force Global Strike Command (AFGSC)
- Release 4 - Air Force Reserve Command (AFRC), and Air National Guard (ANG) Geographically Separated Units (GSUs) to include DFAS Limestone, Air Force District of Washington (AFDW), Air Force Special Operations Command (AFSOC), U.S. Air Force Academy (USAF), Pacific Air Forces (PACAF), and DFAS Japan
- Release 5 - U. S. Air Forces in Europe (USAFE), DFAS Europe, and Air Education and Training Command (AETC), Joint Base San Antonio
- Release 6 - Air Force Materiel Command (AFMC) (Test Bases)

DEAMS Inc 1 is transitioning to the Operation and Support (O&S) phase post Milestone C to support deployed locations.

DEAMS reported MAIS Critical Change in the 31 May 2016 Defense Acquisition Executive Summary (DAES). The program did not meet the original estimate schedule threshold for the Full Deployment Decision (FDD) in August 2015. DEAMS Inc 1 capability will continue to be deployed in FY2016 - FY2020 as approved by the Milestone Decision Authority.

The schedule includes an Oracle R12 upgrade transition to a new production environment and reporting, DCAS, Direct Disbursements, and Audit functionality.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834470 / Defense Enterprise Accounting and Mgmt System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N87		

DEAMS Inc 1 funding through FY 2020 is to support the listed deployments. DEAMS Inc 2 will require licenses to support acquisition requirements for AFSPACE and AFMC starting in FY 2022.  
Procurement funding for DEAMS is in PE 0901538F, Financial Information Management Systems Development (FMISD).



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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834470 / Defense Enterprise Accounting and Mgmt System

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

**Line Item MDAP/MAIS Code:** N87

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-5	Financial Management Information Systems Development		A		- / 4.489	- / 4.755	- / 0.000	- / 1.514	- / 0.000	- / 1.514
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 4.489</b>	<b>- / 4.755</b>	<b>- / 0.000</b>	<b>- / 1.514</b>	<b>- / 0.000</b>	<b>- / 1.514</b>

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

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

**Justification:**  
 Funds are used to procure software licenses and other potential hardware using multiple contracts and various vendors. Software license counts are estimates and may vary at actual execution based on system needs.

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 program element may include necessary civilian pay expenses required to manage , execute, and deliver DEAMS system capability.

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834470 / Defense Enterprise Accounting and Mgmt System	<b>Item Number / Title [DODIC]:</b> - / Financial Management Information Systems Development

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4.489	4.755	0.000	1.514	0.000	1.514
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	4.489	4.755	0.000	1.514	0.000	1.514
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>4.489</b>	<b>4.755</b>	<b>0.000</b>	<b>1.514</b>	<b>0.000</b>	<b>1.514</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Software - DEAMS Cost																		
Recurring Cost																		
Hardware/Software	-	-	4.489	-	-	4.755	-	-	0.000	-	-	1.514	-	-	0.000	-	-	1.514
<i>Subtotal: Recurring Cost</i>	-	-	4.489	-	-	4.755	-	-	0.000	-	-	1.514	-	-	0.000	-	-	1.514
<i>Subtotal: Software - DEAMS Cost</i>	-	-	4.489	-	-	4.755	-	-	0.000	-	-	1.514	-	-	0.000	-	-	1.514
<b>Gross/Weapon System Cost</b>	-	-	4.489	-	-	4.755	-	-	0.000	-	-	1.514	-	-	0.000	-	-	1.514

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
Equip / BSA 4: Spcl Comm-Electronics Projects

**P-1 Line Item Number / Title:**  
834520 / Theater Battle Mgt C2 System

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0207410F **Other Related Program Elements:** 0207410F

**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	7.473	9.659	9.646	0.000	9.646	9.280	9.446	9.617	9.792	-	64.913
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	7.473	9.659	9.646	0.000	9.646	9.280	9.446	9.617	9.792	-	64.913
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>7.473</b>	<b>9.659</b>	<b>9.646</b>	<b>0.000</b>	<b>9.646</b>	<b>9.280</b>	<b>9.446</b>	<b>9.617</b>	<b>9.792</b>	-	<b>64.913</b>

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

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

**Description:**

Theater Battle Management Core Systems Force Level (TBMCS FL): An integrated battle management system used to plan, execute, and assess an air campaign. It provides automated planning tools enabling consistent, coordinated battle management at both Air and Space Operations Centers (AOC) and non-AOC entities for operations and intelligence functions. TBMCS FL is a United States Air Force lead system with joint interest responsible for generation and dissemination of the Air Tasking Order and interoperates with allied units.

Unit Command and Control (UC2): Provides the wing and base commanders, and their battle staffs with timely and accurate information for effective decision making. UC2 also provides secure, automated, deployable, and distributed wing-level command and control system with connectivity to TBMCS systems.

Personnel Recovery Command and Control (PRC2): Provides PRC2 services supporting all Combatant Commands, Joint Services and other government agencies. Capabilities include web-based access to isolated personnel reports for all Department of Defense (DoD) personnel, C2 tools for performing command and control of recovery efforts for downed airmen/isolated ground troops, and rapid identification of personnel in distress. PRC2 is used within AOC/Areas Of Responsibility (AOR), Joint Personnel Recovery Centers, and Rescue Coordination Centers to provide the capabilities and services for planning and executing recovery of isolated personnel, and rapidly collaborate, disseminate, and store time-sensitive personnel recovery information.

In FY 2018, Personnel Recovery Command and Control (PRC2) efforts were transferred from PE 0207410F, Air & Space Operations Center (AOC) to PE 0305984F, Personnel Recovery Command & Ctrl (PRC2), in order to improve visibility on Service's fair share of procurement funding for this joint interest 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 contained in PE 0207410F and PE 0305984F.

**Justification:**

1. TBMCS FL: Provides the Joint and Combined Air Component Commander with the automated tools necessary to effectively and efficiently plan, monitor, and execute the air campaign. This includes planning and issuing the Air Tasking and Airspace Control Orders that ensure the theater commander's intent is supported through the application of airpower using the latest intelligence. FY18 funding will continue

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		<b>P-1 Line Item Number / Title:</b> 834520 / Theater Battle Mgt C2 System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0207410F	<b>Other Related Program Elements:</b> 0207410F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>fielding TBMCS FL to include security patches, vendor update patches, operating system upgrades, and DoD mandated policy updates. TBMCS FL will also continue Capital Equipment Replacement (CER) to the systems to maintain security posture and field updates to more than 40 locations.</p> <p>a. TBMCS FL PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY18 funding includes provisions for government contract oversight, technical expertise, and program office support associated with the fielding of TBMCS FL.</p> <p>b. TBMCS FL TRAINING &amp; FIELDING: FY18 funding will continue to support fielding of the TBMCS FL upgrades and specialized training at each location.</p> <p>c. TBMCS FL: FY18 funds will continue to be used to procure hardware and associated software licenses for fielding to various sites.</p> <p>2. UNIT COMMAND AND CONTROL (UC2): Provides the wing and base commanders and their battle staffs with timely and accurate information for effective decision making. UC2 also provides secure, automated, deployable, and distributed wing-level command and control system with connectivity to TBMCS FL systems. Enhanced unit-level operations capabilities will be provided through the UC2 project. FY18 funding will continue to support fielding of modernized equipment at 16 active duty locations.</p> <p>a. UC2 HARDWARE AND COMMERCIAL-OFF-THE-SHELF (COTS) SOFTWARE: FY18 funds will continue to replace clients, servers, miscellaneous hardware, and associated software licenses for UC2 sites.</p> <p>b. UC2 PMA: FY18 funding includes provisions for government contract oversight, technical expertise, and program office support associated with the fielding of UC2.</p> <p>3. PERSONNEL RECOVERY COMMAND AND CONTROL (PRC2): Provides PRC2 services supporting all Combatant Commands, Joint Services and other government agencies. Capabilities include web-based access to isolated personnel reports for all DoD personnel, C2 tools for performing command and control of recovery efforts for downed airmen/isolated ground troops, and rapid identification of personnel in distress. PRC2 is used within AOC/AOR, Joint Personnel Recovery Centers, and Rescue Coordination Centers to provide the capabilities and services for planning and executing recovery of isolated personnel, and rapidly collaborate, disseminate, and store time-sensitive personnel recovery information. FY18 funding will continue to support PRC2 operations.</p> <p>a. PRC2 HARDWARE AND COTS SOFTWARE: FY18 funding will continue procure various hardware pieces and associated software licenses for fielding to various sites.</p> <p>b. PRC2 PMA: FY18 funding will provide for government program oversight, technical expertise, and program office support associated with the fielding of PRC2.</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:**  
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects

**P-1 Line Item Number / Title:**  
834530 / Air & Space Operations Ctr-WPN SYS

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

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

Resource Summary	Prior Years	FY 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> )	-	9.993	15.474	25.533	0.000	25.533	36.081	36.527	37.270	42.163	-	203.041
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	9.993	15.474	25.533	0.000	25.533	36.081	36.527	37.270	42.163	-	203.041
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>9.993</b>	<b>15.474</b>	<b>25.533</b>	<b>0.000</b>	<b>25.533</b>	<b>36.081</b>	<b>36.527</b>	<b>37.270</b>	<b>42.163</b>	-	<b>203.041</b>

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

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

**Description:**

The Air Operations Center Weapon System (AOC WS), AN/USQ-163 Falconer, the senior element of the Theater Air Control System, is the weapon system that the Commander, Air Force Forces (COMAFFOR) provides the Combined/Joint Force Air Component Commander (C/JFACC) for monitoring, planning, executing and assessing theater-wide air and space operations in support of the air battle campaign to meet the Combined/Joint Force Commander's (C/JFC) objectives.

The AOC WS contains over 40 Command and Control (C2) systems/applications (3rd Party Commercial Off the Shelf (COTS)/Government Off the Shelf (GOTS)) that are continually being updated under semi-annual/annual/bi-annual efforts (i.e., Baseline Releases [BR]). The AOC WS 10.1 integrates these changes as well as provides periodic Capital Equipment Replacement (CER) to keep the AOC WS interoperable, supportable, and compliant (e.g., certification and accreditation). Fielding will provide Joint C2 interoperability, and respond to the highest priority Combatant Command (CCMD) interoperability problems including: (a) incorporating fixes to shortfalls in interactions with CCMD targeting support systems, (b) enhancing the effectiveness of the operational picture to respond to the proliferation of sensors, and (c) handling data interface changes being experienced with older 3rd Party program deliveries. Major subsystems have enhanced their security profile and this fielding will serve as a re-accreditation of the overall AOC WS baseline. This profile provides an excellent transition point for the AOC WS 10.2 modernization baseline. Primary efforts in fielding include CER and baseline updates via variously sized BRs. BRs are regularly scheduled 3rd Party COTS/GOTS application updates. They are normally comprised of hardware/software changes/updates/modernized improvements/modifications and security patches. Each BR is based on warfighter-validated needs that require updates to the AOC WS 10.1.

The AOC WS funding provides system hardware, software, technical documents, CER (e.g., replacing end-of-life/end of support Direct Mission Support (DMS) and 3rd Party components with solutions that will bridge between 10.1 and 10.2), core radio and initial training to standardize and sustain the AOC WS. This includes the integration, test and fielding of cyber security improvements and existing 3rd Party modernized improvements/modifications (e.g., replace paper copy with electronic requests). The fielding and CER consist of AOCs and their associated support sites (e.g., Help Desk, Formal Training Unit (FTU), experimental sites, and Air Reserve Component sites).

There are three distinct categories of AOCs: Geographic, Global (formally known as Functional), and assorted AOC Support Functions (Help Desk, FTU, Operational Support Facility (OSF) and Air Reserve Component sites). While all sites start with the standardized 10.1 baseline, each is specifically tailored to the needs of the associated Geographic CCMD or Global (formally known as Functional) Command. Thus, as no two AOCs are alike, when a CER or BR is accomplished, each site is unique and requires its own specifically designed site-engineered fielding plan and associated hardware, which drives differences in site specific (i.e., unit) costs.

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects	<b>P-1 Line Item Number / Title:</b> 834530 / Air & Space Operations Ctr-WPN SYS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

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 contained in PE 0207410F.

	<b>Secondary Distribution</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.993	15.074	24.633	-	24.633	1.251	1.289	2.228	1.368
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.300	0.600	-	0.600	0.600	0.600	-	0.600
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.100	0.300	-	0.300	0.300	0.300	-	0.300
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>9.993</b>	<b>15.474</b>	<b>25.533</b>	-	<b>25.533</b>	<b>2.151</b>	<b>2.189</b>	<b>2.228</b>	<b>2.268</b>

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834530 / Air & Space Operations Ctr-WPN SYS

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

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

Exhibits Schedule					Prior Years	FY 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-5	Air & Space Operations Ctr-WPN SYS		A		- / -	- / 9.993	- / 15.474	- / 25.533	- / 0.000	- / 25.533
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 9.993</b>	<b>- / 15.474</b>	<b>- / 25.533</b>	<b>- / 0.000</b>	<b>- / 25.533</b>

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

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

**Justification:**

1. FIELDING: Primary efforts include integration and fielding of improvements/upgrades of existing 3rd Party applications as well as newly developed replacement applications, CER (replacing end-of-life/end of support components) and baseline updates via variously sized BRs.
  - a. CAPITAL EQUIPMENT REPLACEMENT (CER): FY18 funds address numerous commercial end-of-life and DMS components including components associated with C2 applications (3rd Party COTS/GOTS) that must be resolved.
  - b. BASELINE RELEASES (BR): FY18 will fund BRs, periodic maintenance upgrades, emergency fixes, cyber security improvements and other activities (e.g., testing activities).
  - c. FIELDING SYSTEM PROGRAM OFFICE (SPO) SUPPORT: FY18 funds will be used to provide government oversight, technical expertise, and program office support associated with the fielding of AOC.
  - d. TEST SUPPORT (46 Test Squadron [46TS]): FY18 funds will be used to provide government oversight and technical expertise associated with the testing of AOC.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834530 / Air & Space Operations Ctr-WPN SYS	<b>Item Number / Title [DODIC]:</b> - / Air & Space Operations Ctr-WPN SYS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	9.993	15.474	25.533	0.000	25.533
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	9.993	15.474	25.533	0.000	25.533
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>9.993</b>	<b>15.474</b>	<b>25.533</b>	<b>0.000</b>	<b>25.533</b>

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

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

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)

Hardware - Hardware End Item Cost

Recurring Cost

1.a.1. CAPITAL EQUIPMENT REPLACEMENT: GEOGRAPHIC/ GLOBAL (formerly known as Functional) AOC - AD	-	-	-	-	-	0.165	-	-	0.000	-	-	1.500	-	-	-	-	-	1.500
1.a.2. CAPITAL EQUIPMENT REPLACEMENT: AOC SUPPORT SITES - AD	-	-	-	-	-	0.545	-	-	2.967	-	-	1.825	-	-	-	-	-	1.825
1.a.3. CAPITAL EQUIPMENT REPLACEMENT: AOC EXPERIMENTAL SITES - AD	-	-	-	-	-	1.575	-	-	2.055	-	-	2.112	-	-	-	-	-	2.112
1.a.4. CAPITAL EQUIPMENT REPLACEMENT - RESERVE	-	-	-	-	-	0.104	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
1.a.5. CAPITAL EQUIPMENT REPLACEMENT - GUARD	-	-	-	-	-	0.052	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834530 / Air & Space Operations Ctr-WPN SYS
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
1.b.1. BASELINE RELEASE: AOC SITES - AD	-	-	-	-	-	0.109	-	-	1.180	-	-	3.450	-	-	-	-	-	3.450
1.b.2. BASELINE RELEASE: SUPPORT SITES - AD	-	-	-	-	-	0.048	-	-	0.600	-	-	3.950	-	-	-	-	-	3.950
1.c. FIELDING SPO SUPPORT	-	-	-	-	-	5.001	-	-	4.482	-	-	7.196	-	-	-	-	-	7.196
1.d. TEST SUPPORT (46TS)	-	-	-	-	-	0.679	-	-	0.260	-	-	1.500	-	-	-	-	-	1.500
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	8.278	-	-	11.544	-	-	21.533	-	-	-	-	-	21.533
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	8.278	-	-	11.544	-	-	21.533	-	-	-	-	-	21.533
<i>Support - Support End Item Cost</i>																		
2.a. PROGRAM MANAGEMENT ADMINISTRATION: PROGRAM SUPPORT	-	-	-	-	-	1.715	-	-	3.930	-	-	4.000	-	-	-	-	-	4.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	1.715	-	-	3.930	-	-	4.000	-	-	-	-	-	4.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	9.993	-	-	15.474	-	-	25.533	-	-	0.000	-	-	25.533

**Remarks:**

- 1). Due to different levels of complexity, differences in equipment to be updated, and length of required time necessary for modification, the total cost will fluctuate between fiscal years.
- 2). Differences in site specific setup (due to variations between mission specific needs and differences in site type i.e., Geographic vs. Global (formally known as Functional) vs. Associated Support Site vs. Air Reserve Component Sites) will drive differences in site specific requirements (e.g., time required, hardware required and software required). This makes quantification impossible, as there is no single baseline to produce a quantity against. Per DoD Financial Regulation 7000.14-R, Volume 2B, Chapter 4, Exhibit P-5 Instruction, the quantities in the P-5 are left blank as there is no way to report applicable quantities.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	9.993	15.074	24.633	-	24.633
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	0.300	0.600	-	0.600
AFR	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	0.100	0.300	-	0.300
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>				<b>Date: May 2017</b>		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4		<b>P-1 Line Item Number / Title:</b> 834530 / Air & Space Operations Ctr-WPN SYS		<b>Item Number / Title [DODIC]:</b> - / Air & Space Operations Ctr-WPN SYS		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	9.993	15.474	25.533	0.000	25.533

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
 Equip / BSA 4: Spcl Comm-Electronics Projects

**P-1 Line Item Number / Title:**  
 834560 / Air Operations Center (AOC) 10.2

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0605458F **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N42

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> )	-	14.846	30.623	0.000	0.000	0.000	5.756	52.920	52.114	0.000	-	156.259
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	14.846	30.623	0.000	0.000	0.000	5.756	52.920	52.114	0.000	-	156.259
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>14.846</b>	<b>30.623</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>5.756</b>	<b>52.920</b>	<b>52.114</b>	<b>0.000</b>	-	<b>156.259</b>

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

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

**Description:**

NOTE: Due to the approved ICE on 7 Oct 16 and AOC 10.2 2016 Critical Change, no Other Procurement, Air Force FY 2018 funding is requested and no funding is required until FY 2019.

NOTE: AOC 10.2 Other Procurement, Air Force FY 2016 early to need funding is being repurposed as Rapid Acquisition Authority for the U.S. Air Force Counter small Unmanned Aerial System (CsUAS) Capabilities, JEON (ST-0008).

The Air Operations Center Weapon System (AOC WS), AN/USQ-163 Falconer, the senior element of the Theater Air Control System (TACS), is the weapon system the Commander, Air Force Forces (COMAFFOR) provides the Combined/Joint Force Air Component Commander (C/JFACC) for planning, executing, and assessing theater-wide air and space operations. The C/JFACC provides air, space and cyber support to the Combined/Joint Forces Commander (C/JFC) by coordinating, deconflicting and assessing the progress of various weapon systems to advance the C/JFC's campaign. The AOC WS develops operations strategy and planning documents. The AOC WS also disseminates tasking orders; executes day-to-day peacetime and combat air, space and cyber operations; and provides rapid reaction to immediate situations by exercising positive control of friendly forces.

Relative to AOC 10.1, the AOC 10.2 system is expected to provide faster speed of command, improved cyber security and data integrity, and afford easier and faster integration of 3rd Party capabilities. The AOC 10.2 funding provides system hardware, software, technical documents, and initial training to field the weapon system 10.2 program baseline. The fielding efforts focus on, but are not limited to, six Geographic AOCs. The restructured AOC 10.2 program includes iterative baseline updates to keep pace with evolving Commercial Off the Shelf (COTS)/Government Off the Shelf (GOTS)/Capital Equipment Replacement (CER) cyber security needs and will be fielded as the 10.2.0, 10.2.1 and 10.2.2 baselines.

The AOC 10.2 is currently in the Engineering and Manufacturing Development (EMD) phase. Since the program underwent a MAIS Critical Change in 2016, Milestone C (MS C) is now projected for Jan 2019. Initial Operational Test & Evaluation (IOT&E) is projected to begin Jan 2019 and continue through April 2019. Full Deployment Decision (FDD) is projected for Dec 2019. These efforts are using Research, Development, Test & Evaluation (RDT&E) funds in PE 0605458F.

Funding for this exhibit is contained in PE 0207410F.

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834560 / Air Operations Center (AOC) 10.2

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0605458F **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N42

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-5	Air Operations Center (AOC) 10.2		B		- / -	- / 14.846	- / 30.623	- / 0.000	- / 0.000	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 14.846	- / 30.623	- / 0.000	- / 0.000	- / 0.000

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

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

**Justification:**  
No FY 2018 funding requested.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4	<b>P-1 Line Item Number / Title:</b> 834560 / Air Operations Center (AOC) 10.2	<b>Item Number / Title [DODIC]:</b> - / Air Operations Center (AOC) 10.2

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	14.846	30.623	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	14.846	30.623	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>14.846</b>	<b>30.623</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

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

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

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Package Fielding - PackageFielding End Item Cost</b>																		
Recurring Cost																		
Initial Fielding	-	-	-	-	-	0.000	-	-	22.443	-	-	0.000	-	-	-	-	-	0.000
Site Installation Testing	-	-	-	-	-	0.000	-	-	0.360	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	22.803	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Package Fielding - PackageFielding End Item Cost</i>	-	-	-	-	-	<b>0.000</b>	-	-	<b>22.803</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>
<b>Support - Support End Item Cost</b>																		
Program Management Administration (PMA)	-	-	-	-	-	2.629	-	-	4.600	-	-	0.000	-	-	-	-	-	0.000
Fielding Technical Support	-	-	-	-	-	0.340	-	-	0.680	-	-	0.000	-	-	-	-	-	0.000
Type I Training	-	-	-	-	-	0.000	-	-	2.540	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	<b>2.969</b>	-	-	<b>7.820</b>	-	-	<b>0.000</b>	-	-	-	-	-	<b>0.000</b>
<b>Support - Counter small Unmanned Aerial System JEON (ST-0008) Cost</b>																		
Counter small Unmanned Aerial System JEON (ST-0008)	-	-	-	-	-	11.877	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Counter small Unmanned Aerial System JEON (ST-0008) Cost</i>	-	-	-	-	-	<b>11.877</b>	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>												<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 4						<b>P-1 Line Item Number / Title:</b> 834560 / Air Operations Center (AOC) 10.2						<b>Item Number / Title [DODIC]:</b> - / Air Operations Center (AOC) 10.2					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	-	-	14.846	-	-	30.623	-	-	0.000	-	-	0.000	-	-	0.000

**Remarks:**

Differences in site specific setup (due to variations between mission specific needs and differences in site type) will drive differences in site specific requirements (e.g., time required, hardware required and software required). The calculated unit costs are representative but not actual and the total cost will fluctuate between fiscal years.

This makes quantification impossible, as there is no single baseline to produce a quantity against. Per DoD Financial Regulation 7000.14-R, Volume 2B, Chapter 4, Exhibit P-5 Instruction, the quantities in the P-5 are left blank as there is no way to report applicable quantities.

The FY 2017 PB described the Geographic AOC fielding plan with installations of 1/2/3 in FYs 16/17/18. Due to the AOC 10.2 Critical Change, the new fielding plan calls for installations of 4/4 in FYs 20/21, including iterative installs of 10.2.1 and 10.2.2 at the help desk and FTU.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834880 / Spectrum Relocation Fund

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

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

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	19.298	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	19.298
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	19.298	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	19.298
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>19.298</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>19.298</b>

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

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

**Description:**

Funding supports spectrum relocation.

Funding for this exhibit contained in PE 0303267F.

**Justification:**

No funding requested for FY18.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
 Equip / BSA 5: Air Force Communications

**P-1 Line Item Number / Title:**  
 835060 / Base Information Transpt Infrast (BITI) Wired

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0303112F

**Line Item MDAP/MAIS Code:** N78

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> )	-	-	-	-	-	-	-	-	-	-	175	175
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	236.772	74.621	40.043	28.159	0.000	28.159	53.892	94.920	61.468	62.578	308.067	960.520
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	236.772	74.621	40.043	28.159	0.000	28.159	53.892	94.920	61.468	62.578	308.067	960.520
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>236.772</b>	<b>74.621</b>	<b>40.043</b>	<b>28.159</b>	<b>0.000</b>	<b>28.159</b>	<b>53.892</b>	<b>94.920</b>	<b>61.468</b>	<b>62.578</b>	<b>308.067</b>	<b>960.520</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	1.760	5.489

**Description:**

BASE INFORMATION TRANSPORT INFRASTRUCTURE (BITI), formerly known as INFORMATION TRANSPORT SYSTEM (ITS): BITI delivers the Air Force cyberspace network and integrated infrastructure for 175 fixed Air Force installations (active duty, reserve, and Air National Guard (ANG)) and Geographically Separated Units (GSU) at approved locations. Integrated BITI will have a consolidated cyber capability addressing emerging cyber threats to infrastructure. BITI capabilities encompass all optical systems, digital voice/data/video systems, commercial devices, unified capabilities and wireless capabilities. The end result of a Turnkey project is a high-speed packet switching and circuit transport of critical information among core buildings and mission areas on a base. Additionally, BITI provides a robust and secure wireless infrastructure that incorporates high-availability and multi-tiered network connections at approved facilities requiring remote access. The efforts in this program budget line through its various increments and major projects, coupled with the efforts from the Air Force Network budget line enable the fielding, support and sustainment of standard, enterprise solutions for the entire Air Force Intranet from the individual base communications closets to the Air Force gateways and all the components and systems in-between in cyberspace. As Unified Capabilities (UC) evolves, BITI will respond with expanded bandwidth to provide the necessary throughput.

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.

BITI will ensure that Air Force operating locations have sufficient infrastructure, bandwidth, and overall network capability to support the current and future communication needs of the Air Force and Joint-Command warfighter via reliable and survivable information transport with sufficient capacity and capability to meet the classified and unclassified data, voice, video, imagery, and telemetry requirements at each installed location.

BITI Turnkey: Deploys complete BITI system/sub-system infrastructure/equipment for 175 fixed Air Force installations (active duty, reserve, and ANG) and GSU at approved locations.

BITI Turnkey Modification: Follow on full base internal network modifications for system/sub-system infrastructure. Turnkey Modifications are completed on bases that have already received a Turnkey. As requirements have evolved, base missions have changed and some bases that have already received an earlier Turnkey may not have the fiber needed for the current Base Area Network spec. The Turnkey Modifications expands on the existing outside and inside plant, but not to the extent of an initial Turnkey. The last six (6) Turnkey Modifications started in FY15 and will finish in FY18. After completion of these last Turnkey Modifications, all BITI base work will be Recapitalizations.

BITI Recapitalization: Replaces critical "backbone" infrastructure of network equipment installed as part of Turnkeys on a routine basis for fielded systems for over 175 fixed Air Force installations (active duty, reserve, and Air National Guard (ANG)) and Geographically Separated Units (GSUs) at approved locations.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0303112F
<b>Line Item MDAP/MAIS Code:</b> N78		

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the armed forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PE 0303112F.

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	74.621	40.043	23.892	-	23.892	43.317	85.738	61.468	46.364
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.267	-	4.267	8.314	6.903	0.000	16.214
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	2.261	2.279	0.000	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>74.621</b>	<b>40.043</b>	<b>28.159</b>	-	<b>28.159</b>	<b>53.892</b>	<b>94.920</b>	<b>61.468</b>	<b>62.578</b>

**UNCLASSIFIED**

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications **P-1 Line Item Number / Title:** 835060 / Base Information Transpt Infrast (BITI) Wired

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0303112F

**Line Item MDAP/MAIS Code:** N78

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-5	0303112F ITS		A		- / 236.772	- / 74.621	- / 40.043	- / -	- / -	- / -
P-3a	1 / BITI Mod/Recaps (Capability Improvement)				- / 0.000	- / 0.000	- / 0.000	- / 28.159	- / 0.000	- / 28.159
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 236.772</b>	<b>- / 74.621</b>	<b>- / 40.043</b>	<b>- / 28.159</b>	<b>- / 0.000</b>	<b>- / 28.159</b>

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-5	0303112F ITS		A		- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / BITI Mod/Recaps (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 53.892</b>	<b>- / 94.920</b>	<b>- / 61.468</b>	<b>- / 62.578</b>	<b>175 / 308.067</b>	<b>175 / 960.520</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.  
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 BITI: FY18 funding includes, but is not limited to, implementation and upgrades to broadband, fiber-optic digital information transport networks to provide mission-critical information transfer capabilities at fixed Air Force bases (Active Duty, Air Force Reserve, and Air National Guard) and selected geographically separated unit locations. Procurement efforts include, but are not limited, site surveys, installations, and interim contractor support (ICS).  
  
 BITI Turnkey Modification: FY18 deliveries will modify the complete system infrastructure/equipment on bases that have already received a Turnkey. The last six (6) installations started taking place in FY15 and will finish in FY18.  
  
 BITI Recapitalization: FY18 replaces BITI Turnkey fielded systems for 175 fixed Air Force installations.

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired	<b>Item Number / Title [DODIC]:</b> - / 0303112F ITS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	236.772	74.621	40.043	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	236.772	74.621	40.043	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>236.772</b>	<b>74.621</b>	<b>40.043</b>	-	-	-

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

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

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost Cost																		
Recurring Cost																		
BITI Turnkey Projects - AD Site Survey	0.687	21	14.435	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BITI Turnkey Projects - AD Installation	4.464	16	71.429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BITI Turnkey Projects - Reserve Site Survey	0.381	5	1.903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BITI Turnkey Projects - Reserve Installation	2.217	4	8.867	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BITI Turnkey Modernization AD Site Survey	2.698	1	2.698	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BITI Turnkey Modernization AD Installation	6.380	5	31.901	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BITI Recapitalization AD	1.781	4	7.122	0.585	40	23.419	0.899	2	1.798	-	-	-	-	-	-	-	-	-
BITI Recapitalization Reserve	-	-	0.255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BITI Enterprise Recapitalization	-	-	42.094	-	-	35.528	-	-	2.379	-	-	-	-	-	-	-	-	-
AFGSC Telephone Requirement	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BITI Recapitalization ANG	-	-	-	-	-	-	0.700	30	20.992	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>												<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5						<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired						<b>Item Number / Title [DODIC]:</b> - / 0303112F ITS					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	190.704	-	-	58.947	-	-	25.169	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Hardware End Item Cost Cost</i>	-	-	190.704	-	-	58.947	-	-	25.169	-	-	-	-	-	-	-	-	-
Support - Support End Item Cost Cost																		
BITI Direct Mission Support (DMS)	-	-	27.093	-	-	9.448	-	-	8.811	-	-	-	-	-	-	-	-	-
BITI Program Support Costs (PSC) Contractor Services	-	-	17.192	-	-	5.843	-	-	5.710	-	-	-	-	-	-	-	-	-
BITI Other PSC Government Costs	-	-	1.783	-	-	0.383	-	-	0.353	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost Cost</i>	-	-	46.068	-	-	15.674	-	-	14.874	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	236.772	-	-	74.621	-	-	40.043	-	-	-	-	-	-	-	-	-

**Remarks:**

Unit cost has significant variability due to size and complexity of bases/projects. A quantity is defined as a base location site survey or install and is projected based on mission requirements and funding availability.

Manpower (consisting of DMS & PSC) is combined Operations & Support and Acquisition cost.

PROGRAM SUPPORT COSTS (PSC) formally known as PROGRAM MANAGEMENT ADMINISTRATION (PMA): PSC BITI program supports the operation of the program office in its management and oversight role. PSC supports the BITI and the Base Information Infrastructure (BII) Program with engineering and technical support, as well as, support activities for the program.

DIRECT MISSION SUPPORT (DMS): DMS for BITI includes all support associated with equipment installation, engineering technical orders, sustainment engineering, and implementation. This includes the initial bed down and operability testing, technical interchange meetings, interim contractor support and events associated with fielding both hardware and software products, and maintaining configuration control of fielded products.

Funding for Turnkey projects end in 2015, all other funding line items continue through 2027. 2016 and beyond are solely recapitalizations.

NOTE: Previous modification efforts (FY16 & FY17) were reported on the P-5 exhibit. Direction in January 2016 was to begin reporting the modification effort for BITI on a P-3a exhibit starting for the FY18 effort and beyond.

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	74.621	40.043	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis:</b> FY 2018 Air Force			<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5		<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired		<b>Item Number / Title [DODIC]:</b> - / 0303112F ITS		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	74.621	40.043	-	-	-

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired	<b>Modification Number / Title:</b> 1 / BITI Mod/Recaps
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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> )	0.000	0.000	0.000	28.159	0.000	28.159	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	0.000	28.159	0.000	28.159	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>28.159</b>	<b>0.000</b>	<b>28.159</b>	-	-	-	-	-	-

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

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

**Description:**

BITI Turnkey Modification: FY18 deliveries will modify the complete system infrastructure/equipment on bases that have already received a Turnkey. Modernizations are responding to COTS obsolescence, address changes in bandwidth requirements, and re-scaling of the Base Area Network backbone equipment to support the base until the next mod/recap (5 year cycle). The last 6 installations started taking place in FY15 and will finish in FY18.

BITI Recapitalization: FY18 replaces BITI Turnkey fielded systems for 175 fixed Air Force installations.

NOTE: Previous modification efforts (FY16 & FY17) were reported on the P-5 exhibit. Direction in January 2016 was to begin reporting the modification effort for BITI on a P-3a exhibit starting for the FY18 effort and beyond.

Milestone/Development Status

Sustainment

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	-	-	23.892	-	23.892	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.267	-	4.267	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>0.000</b>	<b>0.000</b>	<b>28.159</b>	<b>0.000</b>	<b>28.159</b>	-	-	-

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>											<b>Date: May 2017</b>		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5				<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired							<b>Modification Number / Title:</b> 1 / BITI Mod/Recaps		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> BITI				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0303112F					
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)	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> BITI Recapitalization													
B Kits													
Recurring													
BITI Recapitalization:EQUIPMENT Group B (Active)	- / -	- / -	- / -	15 / 9.304	- / -	15 / 9.304	- / -	- / -	- / -	- / -	- / -	- / -	
BITI Recapitalization:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	11 / 3.551	- / -	11 / 3.551	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 12.855	- / -	- / 12.855	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: BITI Recapitalization</i>	- / -	- / -	- / -	- / 12.855	- / -	- / 12.855	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 12.855	- / -	- / 12.855	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Support (All Modification Items)</b>													
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.335	- / -	- / 0.335	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.392	- / -	- / 0.392	- / -	- / -	- / -	- / -	- / -	- / -	
A&AS	- / -	- / -	- / -	- / 17.900	- / -	- / 17.900	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Contractor Services	- / -	- / -	- / -	- / 14.085	- / -	- / 14.085	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 12.712	- / -	- / 12.712	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> BITI Recapitalization	- / -	- / -	- / -	26 / 2.592	- / -	26 / 2.592	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	26 / 2.592	- / -	26 / 2.592	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>28.159</b>	<b>0.000</b>	<b>28.159</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	



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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835060 / Base Information Transpt Infrast (BITI) Wired	<b>Modification Number / Title:</b> 1 / BITI Mod/Recaps
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

**Modification Item 1 of 1:** BITI Recapitalization

**Manufacturer Information**

Manufacturer Name: TBD/Multiple 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			Jan 2018				
Delivery Dates			Oct 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	- / -	- / -	- / -	26 / 2.592	- / -	26 / 2.592	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	26 / 2.592	- / -	26 / 2.592	- / -	- / -	- / -	- / -	- / -	- / -

**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	-	-	-	-	-	-	-	-	-	26	-	-	-	37	-	-	-	32	-	-	-	35	-	-	-	45	-	-	0	175
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	6	6	7	7	9	9	9	10	8	8	8	8	9	9	9	8	45	175

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:**  
 835080 / AFNET  
 Equip / BSA 5: Air Force Communications

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0208088F, 0303089F, 0303112F

**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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	90.487	98.143	146.897	160.820	0.000	160.820	155.659 <sup>(a)</sup>	115.029 <sup>(b)</sup>	115.136 <sup>(c)</sup>	126.129 <sup>(d)</sup>	-	1,008.300 <sup>(e)</sup>
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	90.487	98.143	146.897	160.820	0.000	160.820	155.659	115.029	115.136	126.129	-	1,008.300
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>90.487</b>	<b>98.143</b>	<b>146.897</b>	<b>160.820</b>	<b>0.000</b>	<b>160.820</b>	<b>155.659</b>	<b>115.029</b>	<b>115.136</b>	<b>126.129</b>	-	<b>1,008.300</b>

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

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

**Description:**

AFNet Weapon Systems in this exhibit are defined as follows: (1) Air Force Cyberspace Defense (ACD),(2) Cyberspace Security and Control System (CSCS), and (3) Air Force Intranet Control (AFINC). Funding for the ACD weapon system are allocated in PE 0207425F & 0208088F. Funding for CSCS & AFINC weapon systems are allocated in PE 0303089F.

AFNet provides Commercial Off-The-Shelf (COTS) solutions to implement, deliver and upgrade installation processing nodes and boundaries, AF Gateways, Information Management Suite, enterprise network security, network situational awareness and C2 capabilities, and allows for the interface with and assured movement of information from terrestrial, air and space-based networks, thus enabling Air Force Information Operations (AFINOps). All funds used for AFNet Systems support the continued establishment and transformation of the AFINOps construct toward the standards and specifications of the DoD Joint Information Environment (JIE). The procurement efforts in this program budget line includes, but are not limited to, equipment purchase, engineering/integration, certification and accreditation, deployment, testing, training equipment/systems, associated training and interim contractor support. Procurements implement technology and capabilities within the AFNet in accordance with the DoD IT Roadmap, AF Information Dominance Flight Plan, AF Cyber blueprint and the AF Network Action Plan. All activities may incorporate support to other program elements across the Air Force Information Enterprise in accordance with SAF/A6 CIO direction, the Federal Data Center Consolidation Initiative (FDCCI) and the Joint Information Environment (JIE) strategy.

PE 0207425F, AFNET OPS AND COMMAND COMM

This PE was an FY16 single year PE placeholder specifically set up to execute AFNet requirements until transition to Weapon System PEs 0208088F & 0303089F in FY17.

PE 0208088F, AIR FORCE CYBERSPACE DEFENSE (ACD) WEAPON SYSTEM

Procures and installs active defensive counter cyberspace operations and situational awareness capabilities in a Defensive Cyberspace Operations role to achieve cyberspace superiority for assigned missions. ACD procurements allow for 24/7/365 monitoring and defense of US Air Force and US Central Command, and Third Party SIPR/NIPR computer networks against hostile attacks as well as intrusion detection, network traffic analysis, network forensics analysis, countermeasure development and execution, and incident response. ACD provides indication and warning, correlation, logging, vulnerability remediation, assessment, process management, blocking, vulnerability identification, investigation and containment. In addition, the ACD provides CSSP (Cyber Security Service Provider) service system upgrades to the AFNet and several third party entities including Joint Strike Fighter, USTRANSCOM, and others. Efforts include, but are not limited to: Host Based Security System upgrades, Next Generation Firewall and Full Packet Capture and Data Analytics Enterprise.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		<b>P-1 Line Item Number / Title:</b> 835080 / AFNET
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0208088F, 0303089F, 0303112F
<b>Line Item MDAP/MAIS Code:</b> N/A		
PE 0301400F, SPACE SUPERIORITY INTELLIGENCE (SSI)		
<p>This PE executes requirements for SSI. Funds may be used for other AFNet requirements if required.</p> <p>No FY18 funds are requested.</p> <p>Cyber Situational Awareness Weapon System (CSAWS): Procures and installs equipment to connect 24th AF unfiltered traffic flow to 25th AF for PAD (Processing, Analysis and Distribution) enabling the first AF Cyber ISR collection and processing capability. Provides ISR based adversary cyber activity Indications and Warnings (I&amp;W) for Situational Awareness (SA). The effort procures a dedicated AF Cyber ISR platform (Remote Data Collector and Remote Data Processor) array that connects to the highest level at the network gateway locations to obtain unfiltered net-flow and packet capture (PCAP). This data is moved via long-haul to the 25th AF El Dorado PAD systems for analysis. The fusion of all source intelligence and net flow analysis provides actionable CTA (Cyber Threat Advisories) reports to cyber operators for the appropriate and proactive actions.</p>		
PE 0303089F, AIR FORCE INTRANET CONTROL / CYBERSPACE SECURITY AND CONTROL SYSTEM (AFINC/CSCS) WEAPON SYSTEM		
<p>This PE executes requirements for both AFINC and CSCS weapon systems. Funds may be used for other AFNet requirements if required.</p> <p>(1) AFINC: Procures and installs equipment for network operations, network defense and overall management of the AF NIPRNet Gateways and the Information Management Suite as well as the Air Force discrete requirements associated with the Joint Regional Security Stacks (JRSS). Efforts include, but are not limited to: AFNet NIPR Gateways (MAC-1 system) and SIPR Gateways (GW), which deliver critical network defense capabilities for the AF enterprise with over 800k users directly supporting flying, maintenance, space and cyber operations across the full range of military operations. GWs prevent and detect unauthorized network infiltration attempts, automatically initiating network defense countermeasures eliminating adversary ability to gain access to the enterprise which would diminish the AF information defense posture. GWs directly support cyber operations worldwide enabling war-fighting missions. With the migration of all Air Force installations to JRSS the GWs will sunset. Funding enables the removal of systems dependent on the GWs and subsequent decommissioning of the GWS. Includes recapitalization of the Information Management Suite (IMS), which provides the Air force with a secure, real-time centralized Out of Band Management of the network management infrastructure for the AFINC, ACD, and CSCS Weapon systems and unifies the management/defense of AF networks and assets, as well as procures equipment upgrades that directly relate to the migration of AF traffic and technology transition from the AFNet NIPR Gateways to the Joint Regional Security Stacks (JRSS).</p> <p>(2) CSCS: Procures and installs capabilities contributing to cyber mission assurance, including proactive defense and persistent network operations for the Air Force and the Air Force-provisioned portions of the DoD Information Network (DoDIN) and the Air Force Information Network (AFIN). CSCS modifications support the following activities: fault resolution activities to maintain operational capabilities; lead-in coordinating activities at base-level Network Control Centers for necessary network security actions; monitoring of AF network services; managing of boundary protection devices and the Air Force network infrastructure; and continuous network situational awareness. Efforts include, but are not limited to: Data Center Consolidation and migration to the Joint Information Environment (JIE); upgrade to the Core Services and the Air Force Vulnerability Management (AFVM) and Network Management.</p> <p>FY18 will procure upgrades for CSCS and AFINC based on 1067 requests. CSCS includes, but is not limited to, Vulnerability Management, Area Processing Center and Regional Data Center Consolidations, and Installation Processing Nodes ACAS upgrades. AFINC includes, but is not limited to, Gateway e-mail security/DNS upgrades.</p>		
PE 0303112F, AFNET (Formally titled: AIR FORCE COMMUNICATION (AIRCOM))		
<p>In FY17, funding in this PE was reallocated to the CSCS, ACD, and AFINC weapon system PEs to fund their block mods, as part of the transition of AFNet to the three weapon systems.</p>		
PE 0303228F, AFNET/JOINT INFORMATON ENVIROMENT (JIE)		
<p>This PE executes requirements for JIE. Funds may be used for other AFNet requirements.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		<b>P-1 Line Item Number / Title:</b> 835080 / AFNET
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0208088F, 0303089F, 0303112F
<b>Line Item MDAP/MAIS Code:</b> N/A		

DoD leadership has established and is tracking JIE (Joint Information Environment) implementation tasks that incrementally address diverse key categories that include but are not limited to: Joint Regional Security Stacks (JRSS), Network Consolidation, Security, Enterprise Services, Application Rationalization, Enterprise Licensing, Mobility Service, Cloud Computing, and Installation types (e.g., Core Data Centers, Enterprise Operations Centers, etc.). Much of the Increment 1 effort focuses on delivering and implementing reference and solution architectures and artifacts, developing TTPs needed to operate JIE capabilities (with global instantiation), defining and establishing an initial set of enterprise services, and establishing the governance processes critical to JIE management. Similar implementation tasks will be established for PACOM and CONUS during Increments 2 and 3 respectively. JIE funding may be used to maintain the current architecture of the AFNET while JIE implementation is ongoing.

Funding for this exhibit is contained in PEs 0204725F, 0208088F, 0301400F, 0303089F, 0303112F, 0303228F.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 835080 / AFNET  
**Equip / BSA 5: Air Force Communications**

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0208088F, 0303089F, 0303112F

**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	AF Network Ops and Command Comms				- / 0.000	- / 49.049	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	1 / ACD WS 0208088F (Reliability & Maintainability)				- / -	- / 0.000	- / 7.736	- / 30.914	- / 0.000	- / 30.914
P-5	Space Superiority Intelligence		A		- / 0.000	1 / 2.337	1 / 5.110	- / 0.000	- / 0.000	- / 0.000
P-3a	1 / AFINC/CSCS WS 0303089 (Reliability & Maintainability)				- / -	- / 17.309	- / 105.586	- / 129.906	- / 0.000	- / 129.906
P-40a	Air Force Communications (AIRCOM)				- / 90.487	- / 29.448	- / 28.465	- / 0.000	- / 0.000	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 90.487</b>	<b>- / 98.143</b>	<b>- / 146.897</b>	<b>- / 160.820</b>	<b>- / 0.000</b>	<b>- / 160.820</b>

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

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

**Justification:**  
 FY18 AFNET (835080) funding provides for, but is not limited to, procurement & modification of the installed and supported critical classified and unclassified information equipment capabilities for the Air Force Network (AFNet) Systems and modification efforts within all three major weapon system components (ACD, AFINC & CSCS).

PE 0207425F, AF NETWORK OPS AND COMMAND COMM

Procured and installed AFNet/Weapon System requirements in FY16. No budget year (FY18) funding requested.

PE 0208088F, AF DEFENSIVE CYBERSPACE OPERATIONS (ACD) WEAPON SYSTEM

Procures and installs active defensive counter cyberspace systems, situational awareness capabilities, and comprehensive malware forensics analysis.

PE 0301400F, SPACE SUPERIORITY INTELLIGENCE

Cyber Situational Awareness Weapon System (CSAWS): Procures and installs equipment to connect 24th AF unfiltered traffic flow to 25th AF for PAD (Processing, Analysis and Distribution) enabling the first AF Cyber ISR collection and processing capability. Provides ISR based adversary cyber activity Indications and Warnings (I&W) for Situational Awareness (SA).

PE 0303089F, CYBERSPACE OPERATIONS SYSTEMS

(1) AFINC: Procures and installs equipment for network operations, network defense and overall management of the AF NIPRNet Gateways as well as the Air Force discrete requirements associated with the Joint Regional Security Stacks (JRSS).

(2) CSCS: Procures and installs capabilities contributing to cyber mission assurance, including proactive defense and persistent network operations for the Air Force and the Air Force-provisioned portions of the DoD Information Network (DoDIN) and the Air Force Information Network (AFIN).

PE 0303112F, AIR FORCE COMMUNICATION (AIRCOM)

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		<b>P-1 Line Item Number / Title:</b> 835080 / AFNET
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0208088F, 0303089F, 0303112F
<b>Line Item MDAP/MAIS Code:</b> N/A		
In FY17, funding in this PE was reallocated to the CSCS, ACD, and AFINC weapon system PEs to fund their block mods. No budget year (FY18) funding requested.		
<b>Efforts with funding starting in FY 2019 through FY 2022 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:</b>		
<ul style="list-style-type: none"><li>(a) FY 2019 Cost Delta: 155.659 million</li><li>(b) FY 2020 Cost Delta: 115.029 million</li><li>(c) FY 2021 Cost Delta: 115.136 million</li><li>(d) FY 2022 Cost Delta: 126.129 million</li><li>(e) FY Total Cost Delta: 1,008.300 million</li></ul>		

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**Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 5 **P-1 Line Item Number / Title:** 835080 / AFNET **Aggregated Modification Items Title:** AF Network Ops and Command Comms

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AFNET Ops and Command Comms / AFNET Ops and Command Comms			-	-	-	-	-	49.049	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>49.049</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
AFNET Ops and Command Comms / AFNET Ops and Command Comms	ACD-AFINC-CSCS	Reliability & Maintainability



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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date: May 2017</b>
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835080 / AFNET	<b>Modification Number / Title:</b> 1 / ACD WS 0208088F

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	7.736	30.914	0.000	30.914
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	7.736	30.914	0.000	30.914
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>7.736</b>	<b>30.914</b>	<b>0.000</b>	<b>30.914</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-

**Description:**

PE 0208088F, AF DEFENSIVE CYBERSPACE OPERATIONS (ACD) WEAPON SYSTEM

Requirements for ACD have been funded previously in 0303112F and 0207425F as part of the AFNet 835080 procurement exhibit. Funds may be used for other AFNet requirements if required.

Procures and installs active defensive counter cyberspace operations and situational awareness capabilities in a NetD role to achieve cyberspace superiority for assigned missions. ACD procurements allow for 24/7/365 monitoring and defense of US Air Force and US Central Command, and Third Party SIPR/NIPR computer networks against hostile attacks as well as intrusion detection, network traffic analysis, network forensics analysis, countermeasure development and execution, and incident response. ACD provides indication and warning, correlation, logging, vulnerability remediation, assessment, process management, blocking, vulnerability identification, investigation and containment. In addition, the ACD provides CNDSP (Computer Network Defense Service Provider) service systems upgrades to the AFNet and several third party entities including Joint Strike Fighter, USTRANSCOM, and others. Efforts include, but are not limited to: Host Based Security System upgrades, Next Generation Firewall and Full Packet Capture and Data Analytics Enterprise.

FY18 funds will procure updates via 1067s requests for ACD which includes, but is not limited to, Host Based Security System upgrades, Data Analytics, and hardware/software upgrades to move towards the Joint Information Environment (JIE).

Milestone/Development Status

Sustainment

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>						<b>Date: May 2017</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5			<b>P-1 Line Item Number / Title:</b> 835080 / AFNET			<b>Modification Number / Title:</b> 1 / ACD WS 0208088F	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :					<b>MDAP/MAIS Code:</b>		
<b>Models of Systems Affected:</b> ACD			<b>Modification Type:</b> Reliability & Maintainability			<b>Related RDT&amp;E PEs:</b> 0303112F	
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Procurement</b>							
<i>Modification Item 1 of 1: ACD MODs</i>							
B Kits							
Recurring							
ACD MODs:EQUIPMENT Group B (Active)							
	- / -	- / -	1 / 6.376	1 / 24.833	- / -	1 / 24.833	
<i>Subtotal: Recurring</i>							
	- / -	- / -	- / 6.376	- / 24.833	- / -	- / 24.833	
<i>Subtotal: ACD MODs</i>							
	- / -	- / -	- / 6.376	- / 24.833	- / -	- / 24.833	
<i>Subtotal: Procurement, All Modification Items</i>							
	- / -	- / -	- / 6.376	- / 24.833	- / -	- / 24.833	
<b>Support (All Modification Items)</b>							
PMA - Contractor Services							
	- / -	- / -	- / 0.734	- / 3.337	- / -	- / 3.337	
PMA - Other Gov't Costs							
	- / -	- / -	- / 0.626	- / 2.744	- / -	- / 2.744	
<i>Subtotal: Support</i>							
	- / -	- / -	- / 1.360	- / 6.081	- / -	- / 6.081	
<b>Installation</b>							
<i>Subtotal: Installation</i>							
	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>							
<b>Total Cost (Procurement + Support + Installation)</b>							
	-	0.000	7.736	30.914	0.000	30.914	

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force		<b>Date:</b> May 2017	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5		<b>P-1 Line Item Number / Title:</b> 835080 / AFNET	
<b>Modification Number / Title:</b> 1 / ACD WS 0208088F		<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	
		<b>MDAP/MAIS Code:</b>	
<b>Modification Item 1 of 1:</b> ACD MODs			
<b>Manufacturer Information</b>			
Manufacturer Name: Multiple		Manufacturer Location: Various	
Administrative Leadtime (in Months): 7		Production Leadtime (in Months): 12	
<b>Dates</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates		May 2017	May 2018
Delivery Dates		May 2018	May 2019
<b>Installation Information</b>			
<b>Method of Implementation (Organic):</b> Org/Intermediate		<b>Installation Quantity:</b> 6	

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835080 / AFNET	<b>Item Number / Title [DODIC]:</b> - / Space Superiority Intelligence

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	1	1	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	2.337	5.110	0.000	0.000	0.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	2.337	5.110	0.000	0.000	0.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>2.337</b>	<b>5.110</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	2.337	5.110	-	-	-

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ M)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Hardware - AF Cyber ISR Platform Cost</b>																		
Non Recurring Cost																		
Prime Contractor	-	-	0.000	1.469	1	1.469	4.235	1	4.235	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	1.469	-	-	4.235	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware - AF Cyber ISR Platform Cost</i>	-	-	0.000	-	-	1.469	-	-	4.235	-	-	0.000	-	-	0.000	-	-	0.000
<b>Support - AF Cyber ISR Platform Cost</b>																		
PMA Contractor Support	-	-	-	-	-	0.868	-	-	0.875	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - AF Cyber ISR Platform Cost</i>	-	-	-	-	-	0.868	-	-	0.875	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	0.000	2.337	1	2.337	5.110	1	5.110	-	-	0.000	-	-	0.000	-	-	0.000

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date: May 2017</b>
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835080 / AFNET	<b>Modification Number / Title:</b> 1 / AFINC/CSCS WS 0303089

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	17.309	105.586	129.906	0.000	129.906
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	17.309	105.586	129.906	0.000	129.906
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>17.309</b>	<b>105.586</b>	<b>129.906</b>	<b>0.000</b>	<b>129.906</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-

**Description:**

PE 0303089F executes requirements for both Cyberspace Security and Control System (CSCS) and Air Force Intranet Control (AFINC) weapon systems. Funds may be used for other AFNet requirements if required.

(1) AFINC: Procures and installs equipment for network operations, network defense and overall management of the AF NIPRNet Gateways and the Information Management Suite as well as the Air Force discrete requirements associated with the Joint Regional Security Stacks (JRSS). Efforts include, but are not limited to: AFNet NIPR Gateways (MAC-1 system) and SIPR Gateways (GW), which deliver critical network defense capabilities for the AF enterprise with over 800k users directly supporting flying, maintenance, space and cyber operations across the full range of military operations. GWs prevent and detect unauthorized network infiltration attempts, automatically initiating network defense countermeasures eliminating adversary ability to gain access to the enterprise which would diminish the AF information defense posture. GWs directly support cyber operations worldwide enabling war-fighting missions. With the migration of all Air Force installations to JRSS the GWs will sunset. Funding enables the removal of systems dependent on the GWs and subsequent decommissioning of the GWS. Includes recapitalization of the Integrated Management Suite, which provides for real-time centralized Out of band Management of network devices, and unifies the management/defense of AF networks and assets, as well as procures equipment upgrades that directly relate to the migration of AF traffic and technology transition from the AFNet NIPR Gateways to the Joint Regional Security Stacks (JRSS).

(2) CSCS: Procures and installs capabilities contributing to cyber mission assurance, including proactive defense and persistent network operations for the Air Force and the Air Force-provisioned portions of the DoD Information Network (DoDIN) and the Air Force Information Network (AFIN). CSCS modifications support the following activities: fault resolution activities to maintain operational capabilities; lead-in coordinating activities at base-level Network Control Centers for necessary network security actions; monitoring of AF network services; managing of boundary protection devices and the Air Force network infrastructure; and continuous network situational awareness. Efforts include, but are not limited to: Data Center Consolidation and migration to the Joint Information Environment (JIE); upgrades to Core Services and Air Force Vulnerability Management (AFVM) and Network Management.

FY18 will procure upgrades for CSCS and AFINC based on 1067 requests. CSCS includes, but is not limited to Vulnerability Management, Area Processing Center and Regional Data Center Consolidations, and Installation Processing Nodes ACAS upgrades. AFINC includes, but is not limited to, Gateway e-mail security/DNS upgrades.

Milestone/Development Status

Sustainment

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>					<b>Date: May 2017</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5			<b>P-1 Line Item Number / Title:</b> 835080 / AFNET		<b>Modification Number / Title:</b> 1 / AFINC/CSCS WS 0303089	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>		
<b>Models of Systems Affected:</b> AFINC-CSCS-WS		<b>Modification Type:</b> Reliability & Maintainability			<b>Related RDT&amp;E PEs:</b> 0303112F	
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)
<b>Procurement</b>						
<i>Modification Item 1 of 1: AFINC/CSCS WS MODs</i>						
B Kits						
Recurring						
AFINC/CSCS WS MODs:EQUIPMENT Group B (Active)	- / -	1 / 14.198	1 / 87.004	1 / 107.427	- / -	1 / 107.427
<i>Subtotal: Recurring</i>	- / -	- / 14.198	- / 87.004	- / 107.427	- / -	- / 107.427
<i>Subtotal: AFINC/CSCS WS MODs</i>	- / -	- / 14.198	- / 87.004	- / 107.427	- / -	- / 107.427
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 14.198	- / 87.004	- / 107.427	- / -	- / 107.427
<b>Support (All Modification Items)</b>						
PMA - Contractor Services	- / -	- / 11.679	- / 10.030	- / 12.699	- / -	- / 12.699
PMA - Other Gov't Costs	- / -	- / 1.432	- / 8.552	- / 9.780	- / -	- / 9.780
<i>Subtotal: Support</i>	- / -	- / 3.111	- / 18.582	- / 22.479	- / -	- / 22.479
<b>Installation</b>						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>						
<b>Total Cost (Procurement + Support + Installation)</b>	-	17.309	105.586	129.906	0.000	129.906

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force		<b>Date:</b> May 2017	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5		<b>P-1 Line Item Number / Title:</b> 835080 / AFNET	
<b>Modification Number / Title:</b> 1 / AFINC/CSCS WS 0303089			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>	
<b>Modification Item 1 of 1:</b> AFINC/CSCS WS MODs			
<b>Manufacturer Information</b>			
Manufacturer Name: Multiple		Manufacturer Location: Various	
Administrative Leadtime (in Months): 7		Production Leadtime (in Months): 12	
<b>Dates</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	May 2016	May 2017	May 2018
Delivery Dates	May 2017	May 2018	May 2019
<b>Installation Information</b>			
<b>Method of Implementation (Organic):</b> Org/Intermediate		<b>Installation Quantity:</b> 7	

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**Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 5	<b>P-1 Line Item Number / Title:</b> 835080 / AFNET	<b>Aggregated Modification Items Title:</b> Air Force Communications (AIRCOM)
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Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Mod 1 0303112F / AFNET			-	-	90.487	-	-	29.448	-	-	28.465	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	<b>90.487</b>	-	-	<b>29.448</b>	-	-	<b>28.465</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
Mod 1 0303112F / AFNET	AFNET	Reliability & Maintainability



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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications	<b>P-1 Line Item Number / Title:</b> 835110 / Joint Communications Support Element (JCSE)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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> )	-	5.199	5.182	5.135	0.000	5.135	5.226	5.319	5.415	5.514	-	36.990
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	5.199	5.182	5.135	0.000	5.135	5.226	5.319	5.415	5.514	-	36.990
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>5.199</b>	<b>5.182</b>	<b>5.135</b>	<b>0.000</b>	<b>5.135</b>	<b>5.226</b>	<b>5.319</b>	<b>5.415</b>	<b>5.514</b>	-	<b>36.990</b>

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

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

**Description:**

JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE): JCSE, assigned under Joint Enabling Capabilities Command, US Transportation Command, is the only joint Department of Defense (DoD) unit specifically formed to provide command, control, communications, and computers (C4) systems support for Joint Chiefs of Staff (JCS) contingency operations worldwide. The Joint Communications Support Element (JCSE) mission is to provide, on short notice, those critical communications required to support Joint Task Force support (JTF) and Joint Special Operations Task Force (JSOTF) headquarters. These assets support the warfighter's ability to deploy rapidly and immediately provide the positive command and control required. This support includes contingency and crisis communications for the Joint Chiefs of Staff, Combatant Commands, Services, Defense agencies, non-Defense agencies, and foreign governments. Program goals include meeting emerging real-world operational requirements with the maximum capabilities, smallest footprint, lowest operations and maintenance costs, and seamless integration with the global information grid. Per Defense Planning Guidance (DPG) and Director, Joint Staff Memorandum (DJSJSM)0291-14, the Air Force is mandated to fund 1/3rd fair share of JCSE's validated Modernization Program.

Funding for this exhibit is contained in PE 0207422F, Deployable Command, Control, and Communications (C3) Systems.

**Justification:**

JCSE: FY2018 base funding procures communications equipment based on Strategic Planning Guidance. This includes the maximum capabilities for narrowband, wideband and protected satellite communications (SATCOM) terminals and systems, tactical radios, terrestrial communications systems, satellite hubs, networking elements, virtual appliances, Video Teleconferencing (VTC) capabilities, alternative power solutions, Airborne /En-Route, Forced Entry, Cyber Security, and Mobile Joint C2 equipment. Advancements in technology have provided opportunities to modernize current equipment sets with enhanced capabilities to meet the program goals which include meeting emerging real-world operational and cyber defense requirements with maximum capabilities, the smallest possible footprint, lowest operations and maintenance costs, and seamless integration with the global information grid. This equipment is a critical part of Command, Control and Communications packages that provide direct operational support to joint forces and HQ elements deployed to austere locations around the globe. Per the Planning Guidance, the Air Force is mandated to fund one-third of the fair share of JCSE's validated equipment modernization plan. JCSE's Program is built/restructured based on Combatant Command (CCMD) and Service Components' requirements and emerging technologies. The Services influence JCSE's spending plan through recommendations in concert with Major Defense Acquisition Program (MDAP) schedules, ensuring that Service dollars meet Joint Service requirements.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications  
**P-1 Line Item Number / Title:** 835140 / USCENTCOM  
 Equip / BSA 5: Air Force Communications

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

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

Resource Summary	Prior Years	FY 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> )	-	25.780	13.418	18.719	0.000	18.719	17.505	17.813	18.133	18.460	-	129.828
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	25.780	13.418	18.719	0.000	18.719	17.505	17.813	18.133	18.460	-	129.828
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>25.780</b>	<b>13.418</b>	<b>18.719</b>	<b>0.000</b>	<b>18.719</b>	<b>17.505</b>	<b>17.813</b>	<b>18.133</b>	<b>18.460</b>	-	<b>129.828</b>

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

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

**Description:**

PE 0201122F USCENTCOM COMMUNICATIONS

HQ USCENTCOM's mission is to work with its national and international partners in promoting development and cooperation among nations, responding to crises, and deterring or defeating state and transnational aggression in order to establish regional security and stability across its entire Area of Responsibility (AOR). Since USCENTCOM's AOR, covering the Middle East, includes the challenges of regional stability and violent extremists, this Combatant Command's mission is critical in regards to the Overseas Contingency Operations (OCO). To meet its mission responsibilities across this geographical expanse, HQ USCENTCOM must rely heavily on Command, Control, Communications, and Computer (C4) systems capable of achieving full spectrum information superiority.

Funding for this effort is contained in PE 0201122F USCENTCOM Communications.

USCENTCOM COMMAND AND CONTROL SYSTEMS: Effort will provide end of life replacement for, but not limited to, Command and Control (C2) systems (thin client, server, etc), Joint Information Environment (JIE), classified and unclassified voice, data and video dissemination, storage area network (SAN) infrastructure, establishment of the CENTCOM Partner Network (CPN) which provides a new secure network for bilateral / multilateral information sharing up to the SECRET RELEASABLE level. Support maximum data storage capacity requirements for HQ war records collection, Modeling & Simulation Systems (J8MS), and uninterrupted power supply (UPS) required for the command's collateral classified and unclassified data networks. This equipment provides HQ USCENTCOM with effective C4 systems to effectively conduct current and future operations throughout the AOR.

PE 0201131F AIR COMBAT COMMAND (ACC) COMMUNICATIONS

Air Forces United States Central Command (AFCENT) is the ACC component designated to support USCENTCOM operations in deployed theaters for the AF. Funds C4 systems throughout the area of responsibility (AOR). Procurement efforts include: communications infrastructure requirements, satellite terminal equipment, data network servers and associated information assurance tools, information transfer nodes and routers, joint radio relays, as well as deployed air traffic control and landing systems and navigational aid systems.

**Justification:**

PE 0201122F USCENTCOM COMMUNICATIONS

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		<b>P-1 Line Item Number / Title:</b> 835140 / USCENTCOM
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>USCENTCOM COMMAND AND CONTROL SYSTEMS: FY18 funding will procure C4 equipment items required for HQ USCENTCOM, MacDill AFB, FL, Disaster Recovery Site (Site X), and CENTCOM Forward HQ at Al Udeid, Qatar, to effectively conduct communications support missions impacting Command and Control (C2) and operational missions conducted by the Commander and staff. The C4/Information Technology (IT) supporting the command must be replaced to meet the ever increasing demands of current, ongoing contingency operations, and the growth of data storage requirements.</p> <p>STORAGE CAPABILITIES: HQ CENTCOM and CENTCOM Forward HQ require maximum storage capabilities to maintain a level of readiness, reduce server footprint, and continue capabilities as they are implemented.</p> <p>PE 0201131F AIR COMBAT COMMAND (ACC) COMMUNICATIONS FY18 funds will provide:</p> <p>BASE COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, AND INTELLIGENCE (C4I) INFRASTRUCTURE. This FY18 effort will support communications CENTCOM Theater Posture Plan (TPP) locations identified for post OEF support. This effort is required at several AFCENT locations in the AOR and will provide critical infrastructure to support the transition to the Joint Information Environment, as required by DoD CIO mandate.</p> <p>SWA-THEATER ENTERPRISE REQUIREMENTS - To meet Unified Capabilities (UC) requirements as required by DoD mandate, and USCENTCOM directing components to transition to an IP-converged architecture in 2017, AFCENT must replace legacy Promina equipment at GSUs. AFCENT must also procure new systems to support contingency operations and base opening/closure requirements, which average 2 base openings and/or closures per year regardless of new or ongoing contingencies.</p> <p>JOINT INFORMATION ENVIRONMENT: Implementation of JIE at MacDill AFB with CENTCOM acting as the possible regional node.</p> <p>FY18 effort will continue to support infrastructure and services essential secure networks for bilateral and multilateral information up to the secret releasable level. Support the networks and cross domain solution necessary to securely and safely integrate coalition sensors and C2 capabilities with C2 efforts. Includes integration of Coalition operations into our Combined Air Operations Center at Al Uedied AB</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:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base **P-1 Line Item Number / Title:** 837100 / Tactical C-E Equipment

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207422F, 0207444F, 0503133F

**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> )	-	138.969	152.136	123.206	0.000	123.206	147.621	94.039	95.753	97.505	-	849.229
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	138.969	152.136	123.206	0.000	123.206	147.621	94.039	95.753	97.505	-	849.229
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>138.969</b>	<b>152.136</b>	<b>123.206</b>	<b>0.000</b>	<b>123.206</b>	<b>147.621</b>	<b>94.039</b>	<b>95.753</b>	<b>97.505</b>	-	<b>849.229</b>

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

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

**Description:**

Tactical Airborne Control Systems PE 0207418F - P-5  
PE 0207418F TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT

Tactical airborne control system equipment encompass three types of simulators that provide scenario based training for Joint Terminal Attack Controllers (JTACs), Combat Control Teams (CCTs), Tactical Air Control Party (TACPs), Air Support Operations Centers (ASOCs) and various Close Air Support (CAS) Platforms.

Joint Terminal Control Training and Rehearsal System (JTC TRS): TACP Fixed and Portable Simulators comprise JTC TRS. This simulator project trains personnel controlling air support for combat operations by providing both a stand-alone and Distributed Mission Operations (DMO)-capable high-fidelity JTAC, and Combat Control Team (CCT) simulation system. The JTC TRS will be able to connect to DMO networks to allow geographically separated high-fidelity close air support platforms, JTACs and CCTs to train together in a risk-free environment. The Fixed simulator enables operators to conduct Joint Close Air Support (JCAS) training/mission rehearsal using tailored, dynamic scenarios that are relevant to mission tasking. Furthermore, the simulator will be capable of providing tactical air traffic control training for CCT using tactical application of austere airbase operations. The JTAC simulators provide DMO capability to network with aircrew full mission trainers, mission training centers, and Air Support Operations Centers (ASOC). Its primary focus is to provide an air-ground virtual training environment for networked air ground training and mission rehearsal capability that will develop both JTAC and CCT skills and train aircrew to accomplish complex JCAS missions in close proximity to friendly ground forces. JTAC simulators will be fully interoperable with joint/sister Service air ground simulation using industry standards. Training with simulators has the potential to reduce civilian casualties, collateral damage and fratricide by improving coordination skills between air and ground personnel, and increasing JTAC and aircrew proficiency. The acquisition strategy for production of the fixed configuration of the JTC TRS will be executed as an evolutionary acquisition approach using incremental development. Until the production system is ready for fielding, interim simulators will be fielded to support JTAC qualification training and readiness for deployable JTACs. 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. Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues. This program element may include necessary civilian pay expenses required to manage, execute, and deliver JTC TRS weapon system capability.

TACP C2 Simulator: The Joint Theater Air-Ground Simulation System (JTAGSS) is the TACP C2 Simulator. The simulator is for training ASOC and Special Operations Forces (SOF) personnel to perform command and control (C2) battlestaff operations. The C2 simulator will operate in either a stand-alone mode, or connected to other DMO-capable high-fidelity simulation facilities to allow geographically-

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207422F, 0207444F, 0503133F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>separated Theater Air Control System C2 elements, CAS platforms, and JTAC and CCT personnel to train in an integrated virtual environment. The simulator will enable operators to conduct C2 training and mission rehearsal of JCAS assets using tailored, dynamic scenarios that are relevant to current real-world mission taskings. Scenarios will cover the full range of military operations. Training with the simulator will improve mission effectiveness by reducing the risk of civilian casualties, collateral damage, and fratricide by improving C2 skills in rapidly changing and uncertain combat environments. The JTAGSS program will enable procurement of an estimated three JTAGSS for air support operations training. The acquisition strategy for the TACP C2 simulator will be to field advance technology demonstration units in two increments. Increment 1 will field initial capability to perform proof of concept and technology validation of mission simulations for all ASOC crew positions including detailed communications planning, asset deconfliction, integration of joint fires, and other critical mission areas required for integrated TACP/ASOC C2 mission success. At the completion of the technology validation, a contract will be competitively awarded to complete simulator development, deployment and integration.</p> <p>Funding for this exhibit is contained in PE 0207418F.</p> <p>Security Forces (SF)Tactical Communication Radios - 0207588F - P40A FY17 funds are required to replace, reconstitute, and update critical communication equipment that's forward deployed from stateside bases and AFCENT to support missions within the AOR. Transformation to a wideband networking radio is required to communicate with joint and coalition forces. Additionally, SATCOM reach-back is inherent to SF operations. Funding is also required to ensure radios are compatible with SATCOM waveforms like Broadband Global Area Network (BGAN) and the new Navy-led Mobile User Objective System (MUOS), which legacy radios are not compatible with wideband networking, BGAN, or MUOS.</p> <p>Deployable C3 Systems PE 0207422F - P-40A PE 0207422F DEPLOYABLE COMMAND, CONTROL, and COMMUNICATIONS (C3) SYSTEMS</p> <p>THEATER-DEPLOYABLE COMMUNICATIONS (TDC) PROGRAM: TDC is used to extend network data, voice and video services to expeditionary and battlefield forces. The TDC system provides stand-alone communications support for the full range of military operations and communications capability for Command and Control (C2) reach back at and above the tactical level for a variety of Air Force missions. TDC provides a rapidly deployable communication infrastructure package, which provides deployed users with secure and non-secure voice service, internet access, local area network, network management, information assurance, e-mail services (NIPR/SIPRNET), and intra/inter-base connectivity services similar to those established on a fixed base. The TDC package uses commercial-off-the-shelf (COTS) components to support a wide scope of expeditionary missions ranging from a small C2 and airfield mission, supporting 1 to 150 users, and up to the stand-up of an Air Expeditionary Wing supporting 3,000 users. The TDC package also supports Special Missions, to include noncombatant evacuation and disaster relief efforts, US Secret Service support, and Homeland Defense Operations. TDC as directed in Headquarters United States Air Force (HQ USAF) Program Action Directive (PAD) 12-07, and as identified from the Secretary of the Air Force (SAF) directed RAND Study is employed to provide and support 22 Large Communications Package missions at Combat Communications squadrons, 27 Medium Communications Package missions at Combat Communications and Global Mobility Readiness squadrons and 55 Small Communications Package missions at Air Mobility Command units and Air Control squadrons.</p> <p>The TDC program reached full operational capability in 2008 and is currently providing sustainment and procuring and installing end of life/end of support and new requirement efforts to maintain full operational capability. Replacement efforts focus on addressing Diminishing Manufacturing Sources (DMS) issues associated with COTS components. Funding of the TDC program will procure hardware and software targeted to alleviate interoperability and software issues that arise from the constant evolution of technology. Controlled items will be funded with investment funds to purchase military communications equipment classified as critical protection items. Funding will also ensure TDC equipment maintains compliance with security mandates/directives and cryptographic standards. The program has three components:</p> <p>a. HUB AND SPOKE SATELLITE TERMINALS: Satellite terminals provide two-way communications connectivity between expeditionary bases and reach back, through Defense Information System Agency (DISA) teleports, to the global information grid. These terminals augment limited DOD X-Band (Super High Frequency) resources by providing access to commercial satellite services. By augmenting the X- Band terminals, TDC's Spoke Satellite terminals transparently improve the expeditionary workforce's bandwidth throughput for high-speed voice, data, video, and imagery transmissions. Small aperture SATCOM terminals supporting direct internet protocol connection capable of supporting multi-commercial and military transmission bands significantly reduce airlift requirements and provide flexibility during expeditionary operations.</p> <p>b. INTEGRATED COMMUNICATIONS ACCESS PACKAGE (ICAP): ICAP provides the distributed base backbone which includes: hubs/routers, switches, multiplexers, secure/non-secure telephones, secure conferencing, cryptographic and timing equipment, and intra-base connectivity using fiber and/or point-to-point radios. ICAP packages include accessories and configuration kits to tailor the capability of voice and</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207422F, 0207444F, 0503133F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>data modules (i.e. cards to interface to the host nation postal telegraph and telephone). ICAP packages are modular which allows assets to be deployed incrementally and provides the capability to expand the network as the base population increases.</p> <p>c. NETWORK CONTROL CENTER-DEPLOYED (NCC-D): NCC-D provides deployed network management, information protection, and network planning capabilities similar to those at fixed bases. Specific functions include data management, intrusion detection, and firewall capabilities for both the classified and unclassified networks.</p> <p>Changes in cost are due to the quantity of equipment, number of users they support, and the configurations of the three components. Size of packages vary from year to year.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>Funding for this exhibit contained in PE 0207422F.</p> <p>Advanced Communications Systems PE 0207423F - P-5 PE 0207423F JOINT TACTICAL RADIO SYSTEMS/JTRS</p> <p>The Joint Tactical Radio System (JTRS) is a family of software programmable tactical radios that provide voice, data, and video communications for military users in the air, on the ground, and at sea. Common radio architecture and programmable software waveforms will provide joint interoperability between the services. The JTRS program is built around an open system software communications architecture (SCA), a critical set of rules that make software programmable radios function properly and ensure interoperability. Funding for this exhibit is contained in PE 0207423F.</p> <p>Tactical Air Control Party-Mod PE 0207444F - P-5 TACTICAL AIR CONTROL PARTY-MODERNIZATION (TACP-M): TACPs are Air Force units manned by airmen who advise Army Ground Commanders and plan, request and control air power in support of army ground maneuver operations.</p> <p>The purpose of the TACP-Modernization program is to provide TACP voice, data and video communications, targeting and battlefield awareness capabilities. These capabilities are employed at all echelons of Army organizations by: Air Support Operation Centers (ASOCs), Division TACPs, Brigade TACPs, Battalion TACPs, and Joint Terminal Attack Controllers (JTACs) deployed with Army companies or scout teams on the front lines. Improved targeting and data communications capabilities provide more accurate target coordinates, reduce close air support (CAS) response times, and reduce the probability of fratricide or collateral damage through the use of networked data communications.</p> <p>TACPs also coordinate, request, and control airlift support and intelligence, surveillance, and reconnaissance (ISR) support for Army combat operations, and they provide ground communications support for federal disaster response and Homeland Defense operations. TACPs deploy with their aligned Army units and operate in a variety of environments including fixed operations from tactical operations centers (TOCs), mobile operations in tactical vehicles, and dismounted (on foot) operations with Army infantry patrols.</p> <p>The TACP-M program provides and modernizes capabilities in the following major areas: (1) Tactical Operations Center (TOC) Systems (used in fixed operations centers), (2) Vehicle Mounted Systems (used in TACP tactical vehicles), (3) Dismounted Systems (used by JTACs during dismounted infantry operations), and (4) Close Air Support System (CASS) software. The TACP-M program also works closely with the Battlefield Airmen Office program to procure dismounted JTAC equipment. This teaming arrangement helps standardize battlefield airmen equipment, improve efficiency by consolidating acquisition efforts, and often reduces unit costs by increasing procurement quantities. Frequent TACP combat deployments sometimes lead users to change equipment procurement priorities to support urgent operational needs and respond to evolving threat environments.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207422F, 0207444F, 0503133F
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**Line Item MDAP/MAIS Code:** N/A

Funding for this exhibit contained in PE 0207444F.

Special Tactics / Combat Control PE 0408011F - P-5  
PE 0408011F SPECIAL TACTICS / COMBAT CONTROL

BATTLEFIELD AIRMEN OPERATIONS KIT (BAO Kit): BAO Kit will deliver a System of Systems (SoS) that provides a state-of-the-art Command, Control, Communications, Computer, Intelligence, surveillance and Reconnaissance (C4ISR) and also provides a suite of systems for all Air Force Specialty Codes supporting the Special Tactics (ST) community within the Air Force Special Operations Command's (AFSOC's) Battlefield Airmen Program. This program will procure and enhance technologies for battlefield airmen ST operators that are inter-operable with US and coalition special operations dismounted forces. BAO Kit allows the ability to recognize, identify, range, nominate and designate targets during both day and night. BAO Kit will also significantly reduce the time required to find, fix, track, target and engage the enemy by providing highly accurate target grid coordinates in three dimensions, generating target imagery both pre- and post-strike, and transmitting target data to command and control centers. All BAO Kit systems are light, compact and portable for use by dismounted Battlefield Airmen. Modernization efforts focus on reducing the weight of the equipment carried by the dismounted operator. The core capabilities include but are not restricted to: Human Machine Interface (HMI), Operational Control System (OCS), Line of Sight (LOS) targeting device, Non Line of Sight (XLOS) targeting device, and Machine to Machine C4ISR System. BAO also supports AFSOC TAC C2 program purchases enhanced communication systems and equipment essential for ST combat controllers, pararescue, combat weather operators, and tactical air control parties to perform their mission and communicate beyond line of site (BLOS) with rear echelon C2, in order to provide a joint operating picture. The ST operators use this equipment to gather and transmit assault zone suitability and weather data and to perform tactical airfield/assault landing/drop zone operations. Moreover, items include but not limited to training, initial spares, repairs and returns, and other equipment.

Combat Rescue - Pararescue (AFR) PE 0503133F - P-40A  
PE 0503133F: COMBAT RESCUE - PARARESCUE (AFR)

Tactical communications and electrical equipment in support of special operations forces. FY16 funding includes \$4.065M for Overseas Contingency Operations.

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	3,786	3,006	1,026	0	1,026	103	103	103	103
	Total Obligation Authority	126.281	138.335	88.908	0.000	88.908	25.834	14.942	20.887	21.322
AFNG	Quantity	639	91	257	0	257	95	95	95	95
	Total Obligation Authority	11.468	11.808	28.643	0.000	28.643	25.766	17.858	14.286	14.487
AFR	Quantity	17	17	18	0	18	18	18	18	18
	Total Obligation Authority	1.220	1.993	5.655	0.000	5.655	4.783	4.396	2.713	2.782
<b>Total:</b>	<b>Quantity</b>	<b>4,442</b>	<b>3,114</b>	<b>1,301</b>	<b>0</b>	<b>1,301</b>	<b>216</b>	<b>216</b>	<b>216</b>	<b>216</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>138.969</b>	<b>152.136</b>	<b>123.206</b>	<b>0.000</b>	<b>123.206</b>	<b>56.383</b>	<b>37.196</b>	<b>37.886</b>	<b>38.591</b>



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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 837100 / Tactical C-E Equipment  
**Equip / BSA 7: Organization and Base**

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207422F, 0207444F, 0503133F

**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-5	Tactical Airborne Control Systems		A		- / -	23 / 43.187	4 / 15.599	- / 1.192	- / 0.000	- / 1.192
P-40a	Deployable C3 Systems				- / -	- / 17.350	- / 30.484	- / 56.921	- / 0.000	- / 56.921
P-5	Advanced Communications Systems		A		- / -	604 / 9.933	619 / 10.397	392 / 6.485	- / 0.000	392 / 6.485
P-5	Tactical Air Control Party-Mod	P-5a, P-21	A		- / -	2,237 / 33.327	128 / 41.823	693 / 43.084	- / 0.000	693 / 43.084
P-40a	Air Base Ground Defense				- / -	- / 0.000	- / 4.500	- / 0.000	- / 0.000	- / 0.000
P-5	Special Tactics / Combat Control		A		- / -	1,377 / 31.107	2,158 / 49.333	- / 15.524	- / 0.000	- / 15.524
P-40a	Combat Rescue - Pararescue (AFR)				- / -	- / 4.065	- / 0.000	- / 0.000	- / 0.000	- / 0.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 138.969</b>	<b>- / 152.136</b>	<b>- / 123.206</b>	<b>- / 0.000</b>	<b>- / 123.206</b>

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

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

**Justification:**

Tactical Airborne Control Systems PE 0207418F - P-5  
 TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT: FY18 funding provides for JTC TRS program management activities to include cyber security, facilities and integration, and subject matter expertise. Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

Deployable C3 Systems PE 0207422F - P-40A  
 PE 0207422F DEPLOYABLE COMMAND, CONTROL, and COMMUNICATIONS (C3) SYSTEMS

THEATER-DEPLOYABLE COMMUNICATIONS (TDC) consists of (104) Integrated Communications Access Packages (ICAP), (51) Spoke Satellite Terminals and (61) Network Control Center-Deployed (NCC-D) components which equate to the 216 fielded systems. Changes in cost are due to the quantity of equipment, number of users they support, and the configurations of the three components. Size of packages vary from year to year.

HUB AND SPOKE SATELLITE TERMINALS: FY18 funds will procure the technical solution based on user functional requirements for tri-band SATCOM terminal replacements for end of life/end of support terminals.

INTEGRATED COMMUNICATIONS ACCESS PACKAGE (ICAP): FY18 funds will complete the procurement of the technical solution based on user functional requirements for a standardized Small Communication Package (SCP) as Directed by Program Action Directive (PAD) 12-07 and additional requirements identified from the Secretary of the Air Force directed RAND Study. It will also procure a deployed wireless network capability based on user functional requirements and replace any required components that have reached end of life and are no longer supportable. End of life components may be part of kits and modules such as laptop kits, uninterruptible power supply kits. Replace hardware and software that loses cyber security vulnerability mitigations and original equipment manufacturer support as needed.

NETWORK CONTROL CENTER-DEPLOYED (NCC-D): FY18 funds will procure any required components that have reached end of life and are no longer supportable. Procure mandated upgrades as required. Replace hardware and software that loses cyber security vulnerability mitigations and original equipment manufacturer support as needed.

PE 020588F: Security Forces (SF) Tactical Communication Radios - P40A

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207422F, 0207444F, 0503133F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>FY17 funding includes \$4.5M for Overseas Contingency Operations. Funds are provided to replace, reconstitute, and update critical communication equipment that's forward deployed from stateside bases and AFCENT to support missions within the AOR.</p> <p>Advanced Communications Systems PE 0207423F - P-5 PE 02027423F JOINT TACTICAL RADIO SYSTEM/JTRS:</p> <p>FY18 Funds will be used to purchase but not limited to, Mobile User Objective System (MUOS) satellite waveform licenses and associated antennas, cables, diplexers, and training, as well RF-7800M V255 2-channel base stations and AN/PRC-117G manpack radios. Other items to be purchased are AN/PRC-152A, 1-Channel Handheld Radio, 1-Channel Base Station, Single Vehicle Adapter, Dual Vehicle Adapter, Repeater, and RF-310M Single Channel Non-COMSEC Controlled Item (CCI) Radios. FY18 funds will also be used to procure any components to these ancillary items.</p> <p>Tactical Air Control Party-Mod PE 0207444F - P-5 PE 0207444F TACTICAL AIR CONTROL PARTY-MOD TACTICAL AIR CONTROL PARTY-MODERNIZATION (TACP-M) ACQUISITION CATEGORIES: (1) Tactical Operation Center (TOC) Systems (used in fixed operations centers), (2) Vehicle Mounted Systems (used in TACP tactical vehicles), (3) Dismounted Systems (used by JTACs during dismounted infantry operations), and (4) Close Air Support System (CASS) software. TACP-Mod procurements will also include any peripheral equipment required to conduct operations, and generally include training, documentation, initial spares, Interim Contractor support, and other fielding and sustainment activities as required. TACP-M efforts focus on modernizing technologically obsolete and end of life cycle systems with COTS components. FY18 funding will procure the following:</p> <ol style="list-style-type: none"> <li><b>1. TACTICAL OPERATIONS CENTER (TOC) SYSTEMS:</b> TACP TOC systems include the fielded ASOC Gateway and Gateway Light systems, the transit case mounted, transportable Dismounted Communication Package (DCP), Tactical Transportable Gateway (TTG), and TOC computer systems. TTG will replace the currently fielded ASOC Gateway and Gateway Lites. The TTG will provide the capability to receive and transmit digital messages on data link networks at the ASOC and Brigade TOCs. This will provide TACPs with battlespace awareness capabilities and line-of-sight, near real time data communications with aircraft for digitally-aided close air support operations. The TTG will include a multi-band radio for Beyond-Line-Of-Sight (BLOS) or Line-Of-Sight (LOS) networked TACP data communications, and include a Link 16 radio for data communications with strike aircraft. TTG will use generator and commercial power, include a computer to host data link control software, and include all necessary masts, antennas, cables and ancillary equipment. TTG was awarded in 2QFY17 with production fielding in FY18-19.</li> <li><b>2. VEHICLE-MOUNTED SYSTEMS:</b> TACP vehicle systems include the GRC-259 system mounted in Stryker armored vehicles, interim 2-channel mobile Voice Communications Packages (VCPs) mounted in M1165 High Mobility Multi-Wheeled Vehicles (HMMWVs), and the Mobile Communications Systems (MCS) planned for TACP M1145 HMMWVs. In FY16, the TACP program awarded a contract to procure the MCS, a modular, Internet Protocol (IP)-based system that will provide robust 4-channel, voice, data, and video communications capabilities mounted in TACP M1145 armored HMMWVs to support battlefield communications on emerging networking waveforms. These systems will use software-defined multi-band radios, tactical video receivers, computers, and ancillary equipment required to conduct CAS voice, video, and data communications. In FY18, the TACP program will compete and award a contract for the integration of an MCS Block II capability for M1165 HMMWVs and complete the purchase of M1145 Mobile Communications Systems. The TACP-M program intends to upgrade multi-channel data communications systems for M1165 HMMWVs. Future MCS efforts/capabilities will upgrade or procure M113 armored personnel carriers (used by TACPs supporting Army armored or mechanized Brigades), and future Armored Multi-Purpose Vehicles (AMPV) and Joint Light Tactical Vehicles (JLTV). The AMPV and JLTV are new armored vehicles in development by the Army to replace the aging M113 and HMMWV vehicles and will also be adopted by Air Force TACPs.</li> <li><b>3. DISMOUNTED EQUIPMENT</b> (used by JTACs during dismounted operations): Consists of a suite of equipment which provides communications, targeting and situational awareness capabilities for TACPs during dismounted infantry operations. Dismounted upgrade efforts include, but are not limited to: Operational Control System (OCS) - lightweight, ruggedized, dismounted JTAC Computer Kits (consisting of a man-portable computer, smart hub, integrated battery, cabling, etc) which in conjunction with ancillary equipment, support LOS and BLOS data communications with C2 nodes, other TACPs, and support aircraft. Full Motion Video devices and accessories - small light weight ruggedized off-the-shelf units that provide TACP's Type 1 encrypted transmit and receive capabilities to communicate with multiple ISR platforms; Short Wave Infrared (SWIR) Laser Spot Detector / Tracker - TACPs require a small, light laser spot detector/tracker to detect and track laser spots from ground laser designators and airborne laser targeting pods and Multi--Spectral Thermal Marking Device / Beacon which is a small, lightweight, covert, and positive identification capability that can be seen or detected with CAS aircraft targeting pods or other sensors. Dismounted TACPs also require ancillary equipment which includes, but is not limited to, batteries, cables, antennas, GPS receivers, storage devices, cases, laser range finders, laser target designators and other components that facilitate the operation and/or human factor impacts of the dismounted TACP. In addition, ICS may be required to sustain some Dismounted equipment until a long-term sustainment strategy is in place. The TACP-M program will use FY18 funding to support Interim Contractor Support (ICS) for Dismounted equipment prior to transitioning to long-term sustainment.</li> </ol>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207422F, 0207444F, 0503133F
<b>Line Item MDAP/MAIS Code:</b> N/A		

4. TACP CLOSE AIR SUPPORT SYSTEM (CASS) SOFTWARE INTEGRATION: TACP CASS software enables digital data communications with joint C2 nodes, other TACPs, attack aircraft, and Army C2 and Fire Support systems. It includes interfaces with ASOC, TACP and JTAC radios, and targeting devices. It also provides battlespace awareness capabilities needed to plan, request, coordinate, and control CAS in support of ground maneuver forces. FY18 funding will be used to provide software maintenance updates for fielded versions, provide new Human Machine Interface (HMI) interfaces for a dismounted version of the software, incorporate new joint Digitally-aided CAS standards, and provide contract technical and help desk support to operators employing the software. FY18 will provide ICS for fielded CASS software to include training, technical, helpdesk and cyber security support.

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

Special Tactics / Combat Control PE 0408011F - P-5  
PE 0408011F BATTLEFIELD AIRMEN OPERATIONS (BAO) Kit

BATTLEFIELD AIRMEN OPERATIONS KIT (BAO Kit): BAO Kit will deliver a System of Systems (SoS) that provides a state-of-the-art Command, Control, Communications, Computer, Intelligence, surveillance and Reconnaissance (C4ISR) and also provides a suite of systems for all Air Force Specialty Codes supporting the Special Tactics (ST) community within the Air Force Special Operations Command's (AFSOC's) Battlefield Airmen. This program will procure and enhance technologies for battlefield airmen ST operators that are inter-operable with US and coalition special operations dismounted forces. BAO Kit allows the ability to recognize, identify, range, nominate and designate targets during both day and night. BAO Kit will also significantly reduce the time required to find, fix, track, target and engage the enemy by providing highly accurate target grid coordinates in three dimensions, generating target imagery both pre- and post-strike, and transmitting target data to command and control centers. All BAO Kit systems are light, compact and portable for use by dismounted Battlefield Airmen. Modernization efforts focus on reducing the weight of the equipment carried by the dismounted operator. The core capabilities include but are not restricted to: Human Machine Interface (HMI), Operational Control System (OCS), Line of Sight (LOS) targeting device, Non Line of Sight (XLOS) targeting device, and Machine to Machine C4ISR System. BAO also supports AFSOC TAC C2 program purchases enhanced communication systems and equipment essential for ST combat controllers, pararescue, combat weather operators, and tactical air control parties to perform their mission and communicate beyond line of site (BLOS) with rear echelon C2, in order to provide a joint operating picture. The ST operators use this equipment to gather and transmit assault zone suitability and weather data and to perform tactical airfield/assault landing/drop zone operations. Moreover, items include but not limited to training, initial spares, repairs and returns, and other equipment.

PE 0408011F BATTLEFIELD AIRMEN OPERATIONS (BAO) Kit

BATTLEFIELD AIRMEN OPERATIONS (BAO) Kit: FY18 funding will procure, test, support, and repair BAO Kit system of system components to optimize user information intake. Funding will be used to ensure interoperability to reduce the risk of fratricide, reduce the weight carried by individual Airmen, and reduce the time required to find, fix, track, target, and engage the enemy. The core capabilities included are but not restricted to: Human Machine Interface (HMI), Operational Control System (OCS), Line-of-Sight (LOS) targeting device, Non-Line of-Sight (XLOS) targeting device, and Machine-to-Machine C4ISR system. Also, BAO Kit items to include but not limited to individual training, initial spares, equipment repairs, and other logistical service.

a. HUMAN MACHINE INTERFACE (HMI): FY18 funding will procure HMI components that will provide integrated operator interface between all the machine components by using unified visual and auditory displays and controls, such as head-mounted displays and tactical earplug connectivity with communications. This system provides optimized user information portrayal and control of peripheral devices, to include modernization of communications, computing devices, portable electrical power generation and management, targeting and situational awareness software (machine to machine) designed to reduce risk of fratricide and reduce the time required to employ precision effects on the battlefield to single-digit minutes.

b. OPERATIONAL CONTROL SYSTEM (BAO KIT): FY18 funding will procure OCS. OCS is an integrated communication/display system comprised of a small wearable end user device, power and data management system, including integrated cabling and wireless data transmission that can readily connect and integrate all Battlefield Airmen Operations (BAO) Kit peripherals and portable power sources. The OCS system is a light weight, modular, plate carrier adaptable, integrated, easily configurable system that provides precise situational awareness, moving maps, and the ability to perform digitally-aided CAS targeting for all Battlefield Airmen and Special Operations Forces. The OCS is consumable with a lifespan of two years. OCS is upgraded every two years providing more durable hardware, reduced size and weight, and additional capability to the operator.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207422F, 0207444F, 0503133F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>c. LINE OF SIGHT (LOS): FY18 funding will procure LOS systems. LOS integrates target designators and sensors to enhance targeting effectiveness at ranges less than 3km. The equipment provides battlefield airmen with the ability to geo-locate targets in both eye-safe and non-eye safe spectrums. The modernization of this equipment will significantly reduce the weight carried by the operator. Funding will also support AFSOC TAC C2 program purchases of XLOS targeting devices that are essential for combat weather operators. Such equipment will allow operators to gather and transmit assault zone suitability and weather data and to perform tactical airfield/assault landing drop zone operations.</p> <p>Items requested in FY18 as identified on the P-5 Exhibit are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>Combat Rescue - Pararescue (AFR) PE 0503133F - P-40A PE 0503133F: COMBAT RESCUE - PARARESCUE (AFR)</p> <p>No FY18 funding requested.</p>		

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> - / Tactical Airborne Control Systems

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	23	4	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	43.187	15.599	1.192	0.000	1.192
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	43.187	15.599	1.192	0.000	1.192
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>43.187</b>	<b>15.599</b>	<b>1.192</b>	<b>0.000</b>	<b>1.192</b>

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	1.878	3.900	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - 0207418F Cost</b>																		
Recurring Cost																		
TACP Fixed Simulators - JTC TRS	-	-	-	1.265	23	29.095	1.962	4	7.846	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	29.095	-	-	7.846	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware - 0207418F Cost</i>	-	-	-	-	-	29.095	-	-	7.846	-	-	0.000	-	-	0.000	-	-	0.000
<b>Support - 0207418F Cost</b>																		
PMA - Contractor Services and other Government Costs	-	-	-	-	-	2.093	-	-	1.160	1.192	1	1.192	-	-	0.000	1.192	1	1.192
Relocatable Shelters	-	-	-	-	-	5.462	-	-	5.629	-	-	0.000	-	-	-	-	-	0.000
Contractor PM & Cyber Support	-	-	-	-	-	-	-	-	0.964	-	-	-	-	-	-	-	-	-
Realignment to BA SPO	-	-	-	-	-	6.537	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - 0207418F Cost</i>	-	-	-	-	-	14.092	-	-	7.753	-	-	1.192	-	-	0.000	-	-	1.192
<b>Gross/Weapon System Cost</b>	-	-	-	1.878	23	43.187	3.900	4	15.599	-	-	1.192	-	-	0.000	-	-	1.192

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	23	4	0	0	0
Total Obligation Authority	43.187	15.599	1.192	0.000	1.192

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<b>Exhibit P-5, Cost Analysis:</b> FY 2018 Air Force				<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment		<b>Item Number / Title [DODIC]:</b> - / Tactical Airborne Control Systems		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
<b>Total:</b>	<b>Quantity</b>	23	4	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	43.187	15.599	1.192	0.000	1.192

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 7 **P-1 Line Item Number / Title:** 837100 / Tactical C-E Equipment **Aggregated Items Title:** Deployable C3 Systems

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware, Recurring</b>																				
TDC - Integrated Communications Access Package	A		-	-	-	0.171	88	15.030	0.233	93	21.661	0.280	104	29.129	-	-	0.000	0.280	104	29.129
<i>Secondary Distribution</i>																				
AF			-	-	-		44	7.515		49	11.413		55	15.405		-	0.000		55	15.405
AFNG			-	-	-		37	6.319		37	8.618		41	11.483		-	0.000		41	11.483
AFR			-	-	-		7	1.196		7	1.630		8	2.241		-	0.000		8	2.241
TDC - Network Control Center - Deployed	A		-	-	-	0.008	61	0.490	0.116	61	7.076	0.017	61	1.058	-	-	0.000	0.017	61	1.058
<i>Secondary Distribution</i>																				
AF			-	-	-		31	0.249		31	3.596		31	0.538		-	0.000		31	0.538
AFNG			-	-	-		27	0.217		27	3.132		27	0.468		-	0.000		27	0.468
AFR			-	-	-		3	0.024		3	0.348		3	0.052		-	0.000		3	0.052
TDC - Hub and Spoke Satellite Terminals	A		-	-	-	0.000	51	0.000	0.002	51	0.109	0.480	51	24.492	-	-	0.000	0.480	51	24.492
<i>Secondary Distribution</i>																				
AF			-	-	-		17	0.000		17	0.036		17	8.164		-	0.000		17	8.164
AFNG			-	-	-		27	0.000		27	0.058		27	12.966		-	0.000		27	12.966
AFR			-	-	-		7	0.000		7	0.015		7	3.362		-	0.000		7	3.362
<b>Subtotal: Hardware, Recurring</b>			-	-	-	-	-	<b>15.520</b>	-	-	<b>28.846</b>	-	-	<b>54.679</b>	-	-	<b>0.000</b>	-	-	<b>54.679</b>
<b>Services</b>																				
TDC - PSC Contractor Services	A		-	-	-	-	-	1.156	-	-	1.410	-	-	1.480	-	-	0.000	-	-	1.480
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.156	-	-	1.410	-	-	1.480	-	-	0.000	-	-	1.480
TDC - PSC Other Government Costs	A		-	-	-	-	-	0.674	-	-	0.228	-	-	0.762	-	-	0.000	-	-	0.762
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.674	-	-	0.228	-	-	0.762	-	-	0.000	-	-	0.762
<b>Subtotal: Services</b>			-	-	-	-	-	<b>1.830</b>	-	-	<b>1.638</b>	-	-	<b>2.242</b>	-	-	<b>0.000</b>	-	-	<b>2.242</b>
<b>Total</b>			-	-	-	-	-	<b>17.350</b>	-	-	<b>30.484</b>	-	-	<b>56.921</b>	-	-	<b>0.000</b>	-	-	<b>56.921</b>

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

- Remarks:**
- a. FY18 INTEGRATED COMMUNICATIONS ACCESS PACKAGE (ICAP): Unit cost increased resulting in quantity reduction by 1.
  - b. CONTROLLED ITEM will be funded with investment funds to purchase military communications equipment classified as critical protection items.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** FY 2018 Air Force **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Aggregated Items Title:</b> Deployable C3 Systems
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c. PROGRAM SUPPORT COSTS (PSC):

PSC for Theater Deployable Communications supports the operation of the program office in its management and oversight role, to include engineering and technical support, as well as support activities for the program.

d. DIRECT MISSION SUPPORT (DMS):

DMS for TDC includes all support associated with equipment installation, engineering, technical support orders, sustainment engineering, and implementation. This includes the initial bed down and operability testing, technical interchange meetings, and events associated with fielding both hardware and software products, and maintaining configuration control of fielded products.



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> - / Advanced Communications Systems

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity (Units in Each)	-	604	619	392	-	392
Gross/Weapon System Cost (\$ in Millions)	-	9.933	10.397	6.485	0.000	6.485
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	9.933	10.397	6.485	0.000	6.485
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>9.933</b>	<b>10.397</b>	<b>6.485</b>	<b>0.000</b>	<b>6.485</b>

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	0.016	0.017	0.017	-	0.017

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Software - 0207423F Cost																		
Recurring Cost																		
MUOS	-	-	-	0.016	604	9.661	0.016	619	9.915	0.016	392	6.274	-	-	-	0.016	392	6.274
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	9.661	-	-	9.915	-	-	6.274	-	-	-	-	-	6.274
<i>Subtotal: Software - 0207423F Cost</i>	-	-	-	-	-	9.661	-	-	9.915	-	-	6.274	-	-	-	-	-	6.274
Support - Support End Item Cost																		
PMA Contractor Services	-	-	-	-	-	0.157	-	-	0.200	-	-	0.054	-	-	-	-	-	0.054
PMA Other Government Costs	-	-	-	-	-	0.115	-	-	0.282	-	-	0.157	-	-	-	-	-	0.157
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.272	-	-	0.482	-	-	0.211	-	-	-	-	-	0.211
<b>Gross/Weapon System Cost</b>	-	-	-	0.016	604	9.933	0.017	619	10.397	0.017	392	6.485	-	-	0.000	0.017	392	6.485

- Remarks:**
- a. Controlled Item will be funded with investment funds to purchase military communications equipment classified as critical protection items
  - b. Program Support Costs: Program Support Costs supports AF JTRS program with Engineering and technical support, as well as, support activities for the program.

<b>Secondary Distribution</b>		<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
AF	Quantity	604	619	392	-	392
	Total Obligation Authority	9.933	10.397	6.485	-	6.485
<b>Total:</b>	<b>Quantity</b>	<b>604</b>	<b>619</b>	<b>392</b>	-	<b>392</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> FY 2018 Air Force				<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7		<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment		<b>Item Number / Title [DODIC]:</b> - / Advanced Communications Systems		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	9.933	10.397	6.485	0.000	6.485

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>						<b>Date: May 2017</b>		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7			<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment			<b>Item Number / Title [DODIC]:</b> - / Tactical Air Control Party-Mod		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity (Units in Each)			-	2,237	128	693	-	693
Gross/Weapon System Cost (\$ in Millions)			-	33.327	41.823	43.084	0.000	43.084
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			-	33.327	41.823	43.084	0.000	43.084
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			-	<b>33.327</b>	<b>41.823</b>	<b>43.084</b>	<b>0.000</b>	<b>43.084</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)			-	0.015	0.327	0.062	-	0.062

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
DISMOUNTED EQUIPMENT AD(†)	-	-	-	0.009	1,033	9.301	-	-	0.000	0.023	485	11.065	-	-	0.000	0.023	485	11.065
DISMOUNTED EQUIPMENT ANG	-	-	-	0.009	548	4.932	-	-	0.000	0.023	162	3.726	-	-	-	0.023	162	3.726
CASS 145 (Service Packs)	-	-	-	1.242	1	1.242	1.465	1	1.465	1.558	1	1.558	-	-	-	1.558	1	1.558
TACP TRANSPORTABLE GATEWAY (TTG)	-	-	-	0.135	2	0.270	0.135	1	0.135	0.136	27	3.672	-	-	-	0.136	27	3.672
MOBILE COMMUNICATIONS SYSTEMS (MCS)	-	-	-	0.212	36	7.632	0.218	118	25.704	-	-	0.000	-	-	-	-	-	0.000
FUTURE MOBILE COMMUNICATIONS SYSTEMS (MCS 2)	-	-	-	-	-	-	-	-	-	0.653	9	5.877	-	-	-	0.653	9	5.877
BA-DASS SW INTEGRATION	-	-	-	-	-	-	0.662	1	0.662	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	23.377	-	-	27.966	-	-	25.898	-	-	0.000	-	-	25.898
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	23.377	-	-	27.966	-	-	25.898	-	-	0.000	-	-	25.898

Hardware - 0207444F Cost																		
Non Recurring Cost																		

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**Exhibit P-5, Cost Analysis: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 7 **P-1 Line Item Number / Title:** 837100 / Tactical C-E Equipment **Item Number / Title [DODIC]:** - / Tactical Air Control Party-Mod

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

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
MOBILE COMMUNICATIONS SYSTEMS (MCS)	-	-	-	1.853	1	1.853	4.989	1	4.989	3.738	1	3.738	-	-	0.000	3.738	1	3.738
TACTICAL TRANSPORTABLE GATEWAY (TTG)	-	-	-	1.630	1	1.630	1.101	1	1.101	2.732	1	2.732	-	-	-	2.732	1	2.732
FUTURE MOBILE COMMUNICATIONS SYSTEMS (MCS 2)	-	-	-	-	-	-	-	-	-	2.546	1	2.546	-	-	-	2.546	1	2.546
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	3.483	-	-	6.090	-	-	9.016	-	-	0.000	-	-	9.016
<i>Subtotal: Hardware - 0207444F Cost</i>	-	-	-	-	-	3.483	-	-	6.090	-	-	9.016	-	-	0.000	-	-	9.016
<b>Support - 0207444F Cost</b>																		
FULL MOTION VIDEO RECEIVER ICS	-	-	-	0.068	1	0.068	-	-	0.000	-	-	-	-	-	-	-	-	-
OPERATIONAL CONTROL SYSTEM ICS AD	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
OPERATIONAL CONTROL SYSTEM ICS ANG	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
CRANE SUPPORT	-	-	-	2.667	1	2.667	3.410	1	3.410	3.410	1	3.410	-	-	0.000	3.410	1	3.410
PMA CONTRACTOR SERVICES	-	-	-	2.503	1	2.503	3.140	1	3.140	3.244	1	3.244	-	-	-	3.244	1	3.244
PMA OTHER GOV'T COSTS	-	-	-	0.704	1	0.704	0.311	1	0.311	0.372	1	0.372	-	-	-	0.372	1	0.372
MCS ICS	-	-	-	-	-	0.000	0.305	1	0.305	0.224	1	0.224	-	-	-	0.224	1	0.224
TTG ICS	-	-	-	-	-	0.000	-	-	0.000	0.155	1	0.155	-	-	-	0.155	1	0.155
TARGETING DEVICES ICS	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
TEST SUPPORT	-	-	-	0.525	1	0.525	0.601	1	0.601	0.765	1	0.765	-	-	-	0.765	1	0.765
<i>Subtotal: Support - 0207444F Cost</i>	-	-	-	-	-	6.467	-	-	7.767	-	-	8.170	-	-	0.000	-	-	8.170
<b>Gross/Weapon System Cost</b>	-	-	-	<b>0.015</b>	<b>2,237</b>	<b>33.327</b>	<b>0.327</b>	<b>128</b>	<b>41.823</b>	<b>0.062</b>	<b>693</b>	<b>43.084</b>	-	-	<b>0.000</b>	<b>0.062</b>	<b>693</b>	<b>43.084</b>

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF Quantity	1,689	128	531	-	531

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**Exhibit P-5, Cost Analysis: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> - / Tactical Air Control Party-Mod
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

<b>Secondary Distribution</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	
	Total Obligation Authority	28.395	41.823	39.358	0.000	39.358
AFNG	Quantity	548	-	162	-	162
	Total Obligation Authority	4.932	0.000	3.726	-	3.726
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>2,237</b>	<b>128</b>	<b>693</b>	<b>-</b>	<b>693</b>
	<b>Total Obligation Authority</b>	<b>33.327</b>	<b>41.823</b>	<b>43.084</b>	<b>0.000</b>	<b>43.084</b>

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

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**Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> - / Tactical Air Control Party-Mod
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
DISMOUNTED EQUIPMENT AD <sup>(†)</sup>		2016	Rockwell Collins / Cedar Rapids, Iowa	Various	AFLCMC Wright Patterson AFB	Dec 2015	Aug 2017	1,033	0.009	Y		
DISMOUNTED EQUIPMENT AD <sup>(†)</sup>		2018	L3 Communications / Salt Lake City, Utah	Various	AFLCMC Wright Patterson AFB	Nov 2017	Nov 2018	485	0.023	Y		

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

**Remarks:**

TTG Contract awarded 2nd Qtr FY17 and MCS Contract awarded 2nd Qtr FY16.  
 Dismounted unit costs fluctuate based on equipment types purchased.  
 Controlled Item will be funded with investment funds to purchase military communications equipment classified as critical protection items.

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**Exhibit P-21, Production Schedule: FY 2018 Air Force** **Date: May 2017**

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 7 **P-1 Line Item Number / Title:** 837100 / Tactical C-E Equipment **Item Number / Title [DODIC]:** - / Tactical Air Control Party-Mod

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
DISMOUNTED EQUIPMENT AD																															
	1	2016	AF	1,033	0	1,033			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	278	126	629
	2	2018	AF	485	0	485																								485	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule: FY 2018 Air Force** **Date: May 2017**

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 7 **P-1 Line Item Number / Title:** 837100 / Tactical C-E Equipment **Item Number / Title [DODIC]:** - / Tactical Air Control Party-Mod

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
DISMOUNTED EQUIPMENT AD																															
	1	2016	AF	1,033	404	629	126	126	126	126	125																		0		
	2	2018	AF	485	0	485		A	-	-	-	-	-	-	-	-	-	-	-	44	44	44	44	44	44	44	44	44	44	45	0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Air Force	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> - / Tactical Air Control Party-Mod
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Rockwell Collins - Cedar Rapids, Iowa				0	0	0	0	0	0	0	0	0
2	L3 Communications - Salt Lake City, Utah			45	0	2	12	14	0	0	0	0	0

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

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Aggregated Items Title:</b> Air Base Ground Defense
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Tactical Communications Radios	A		-	-	-	-	-	0.000	-	-	4.500	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	4.500	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>4.500</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>4.500</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> - / Special Tactics / Combat Control

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity (Units in Each)	-	1,377	2,158	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	31.107	49.333	15.524	0.000	15.524
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	31.107	49.333	15.524	0.000	15.524
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>31.107</b>	<b>49.333</b>	<b>15.524</b>	<b>0.000</b>	<b>15.524</b>

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	0.023	0.023	-	-	-

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018 Base</b>			<b>FY 2018 OCO</b>			<b>FY 2018 Total</b>		
	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ M)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware - Hardware End Item Cost</b>																		
Recurring Cost																		
HUMAN MACHINE INTERFACE	-	-	-	0.007	1,043	7.301	0.007	536	3.750	0.021	351	7.379	-	-	0.000	0.021	351	7.379
OPERATIONAL CONTROL SYSTEM (BAO KIT)	-	-	-	0.015	120	1.810	0.015	402	6.030	0.020	294	5.880	-	-	-	0.020	294	5.880
LINE OF SIGHT	-	-	-	0.023	408	9.470	0.029	128	3.704	0.040	10	0.395	-	-	-	0.040	10	0.395
BAO KIT/VEHICLE COMMS/MOBILE GATEWAY	-	-	-	10.955	1	10.955	34.200	1	34.200	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	29.536	-	-	47.684	-	-	13.654	-	-	0.000	-	-	13.654
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	29.536	-	-	47.684	-	-	13.654	-	-	0.000	-	-	13.654
<b>Support - Support End Item Cost</b>																		
PMA CONTRACTOR SERVICES	-	-	-	1.000	1	1.000	1.050	1	1.050	1.100	1	1.100	-	-	-	1.100	1	1.100
PMA OTHER GOVERNMENT COSTS	-	-	-	0.571	1	0.571	0.599	1	0.599	0.770	1	0.770	-	-	-	0.770	1	0.770
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	1.571	-	-	1.649	-	-	1.870	-	-	-	-	-	1.870
<b>Gross/Weapon System Cost</b>	-	-	-	<b>0.023</b>	<b>1,377</b>	<b>31.107</b>	<b>0.023</b>	<b>2,158</b>	<b>49.333</b>	-	-	<b>15.524</b>	-	-	<b>0.000</b>	-	-	<b>15.524</b>

**Remarks:**

a. Controlled Item will be funded with investment funds to purchase military communications equipment classified as critical protection items.

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**Exhibit P-5, Cost Analysis: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Item Number / Title [DODIC]:</b> - / Special Tactics / Combat Control
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

b. Program Management Administration (PMA): Cost support management with engineering and technical implementation. PMA supports Program TDC with Engineering, and technical support activities.

<b>Secondary Distribution</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2018 Total</b>
AF	Quantity	1,377	2,158	-	-	-
	Total Obligation Authority	31.107	49.333	15.524	0.000	15.524
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>1,377</b>	<b>2,158</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>31.107</b>	<b>49.333</b>	<b>15.524</b>	<b>0.000</b>	<b>15.524</b>

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837100 / Tactical C-E Equipment	<b>Aggregated Items Title:</b> Combat Rescue - Pararescue (AFR)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
Combat Rescue-Pararescue	A		-	-	-	4.065	1	4.065	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-		1	4.065		-	0.000		-	0.000		-	0.000		-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>4.065</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>4.065</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base **P-1 Line Item Number / Title:** 837170 / Combat Survivor Evader Locator

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 1203176F **Other Related Program Elements:** 0305176F

**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	3.004	0.000	3.004	0.000	0.000	0.000	0.000	-	3.004
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	0.000	3.004	0.000	3.004	0.000	0.000	0.000	0.000	-	3.004
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>0.000</b>	<b>3.004</b>	<b>0.000</b>	<b>3.004</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>3.004</b>

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

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

**Description:**

The Combat Survivor Evader Locator (CSEL) System provides aircrews with end-to-end global satellite secure emergency communication capability during combat and peace-time flying operations. A hand held rescue radio is required as part of the mandatory aircrew survival gear. CSEL is the Joint Program of Record with the US Air Force as lead service. CSEL supports four of five Personnel Recovery Mission Phases; Report, Locate, Support, and Recover. Funding for this exhibit contained in PE 1203176F.

**Justification:**

This program is a new start.

Updates to the CSEL Enterprise (60K+ handheld radios and base stations) are being driven by: 1) An NSA Cryptographic Modernization mandate, and 2) the Ultra High Frequency Follow-On satellite constellation, which is at the end of life. FY18 includes \$3.004M for procurement and retrofit of the modernized hardware.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base **P-1 Line Item Number / Title:** 837190 / Radio Equipment

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

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

Resource Summary	Prior Years	FY 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> )	-	8.400	16.266	15.736	0.000	15.736	14.127	14.379	14.637	14.902	-	98.447
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	8.400	16.266	15.736	0.000	15.736	14.127	14.379	14.637	14.902	-	98.447
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>8.400</b>	<b>16.266</b>	<b>15.736</b>	<b>0.000</b>	<b>15.736</b>	<b>14.127</b>	<b>14.379</b>	<b>14.637</b>	<b>14.902</b>	-	<b>98.447</b>

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

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

**Description:**

This program procures and fields Scope Command High Frequency (HF) radio equipment, network infrastructure, and transmit/receive antennas for 13 strategically located ground stations worldwide. All hardware and software, including radios and antennas, is commercial-off-the-shelf (COTS) with the exception of the software that provides the military functionality required for the COTS equipment to operate as a HF radio system. This software is a COTS-based product that has been configured for the DoD to provide the unique capabilities required. The need for modern, robust, and dependable stations with beyond line of sight radio coverage has been identified to ensure HF radio communications is available in additional areas of interest to the United States.

High Frequency Global Communications System (HFGCS) is the only global, strategic high-power HF Command and Control (C2) network serving the Department of Defense (DoD). HFGCS consists of the two major components: the radio/ network infrastructure (Scope Command) and the antennas (Antenna Program Support) which communicate with mobile assets (aircraft, Navy ships, Coast Guard ships). HFGCS supports aircrews, ground forces, naval operations, and control stations and is the primary C2 resource for Air Mobility Command cargo and tanker aircraft. Additional customers include White House Communications Agency (WHCA), Defense Communications System HF Entry, US Navy High Command Network, and other US government agencies. HFGCS supports war plan dissemination and daily operational requirements for WHCA, Joint Chiefs of Staff (JCS), US Strategic Command, National Military Command Center's Emergency Action Message distribution, Special Air Mission communications, Nuclear Command, Control & Communications (NC3), Major Air Force Commands and Combatant Commanders. HFGCS provides radio connectivity to other governmental organizations such as the Civil Air Patrol, Federal Emergency Management Agency, Transportation Security Administration, and the State Department. The HFGCS network supports Overseas Contingency Operations by providing secure, robust, physically diverse terrestrial and airborne transmission paths providing information services between fixed and deployed operating locations. HFGCS has also been identified as a key communications component in supporting operations in an anti-access area-denial (A2AD) environment.

The HFGCS program recently updated system consoles to replace end-of-life components and to provide increased system security and operations capabilities. The program also installed additional radios at HFGCS stations to consolidate with US Navy operations, allowing the Navy to close obsolete HF stations. FY18 funds Voice over Internet Protocol (VoIP) external interfaces to replace the obsolete switches and communications infrastructure supporting C2 operations, Direct Mission Support/Program Management Administration (DMS/PMA), System Engineering, Joint Interoperability Test Center (JITC) Installation Testing and shipping costs for these procurement efforts.

Funding for this exhibit contained in PE 0303133F.

Military Necessity: Controlled Item will be funded with investment funds to purchase military communications equipment classified as critical protection items.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837190 / Radio Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p><b>Justification:</b></p> <p>1. SCOPE COMMAND RADIO/NETWORK INFRASTRUCTURE: The Scope Command Radio/Network Infrastructure requires continuous sustainment to replace technically obsolete and logistically unsupportable equipment to maintain existing capability. These projects continue the implementation of updated COTS radio and console capabilities into the HFGCS network. The current projects update the system efficiencies within radio operations and mission control, as well as maintain interoperability and compatibility with the Global Information Grid (GIG) and the Defense Information System Network (DISN). The HFGCS FY18 program supports three main projects within the Scope Command Radio/Network Infrastructure Program and continues the Antenna Replacement program. The FY18 HFGCS Network Infrastructure program includes the Audio Communications Functionality (ACF) Phase II, Hekimian Systems Test Equipment Replacement and the Receive Matrix Replacement.</p> <p>A. The ACF program provides updated audio functionality at an individual HFGCS radio station by replacing the obsolete Digital Electronic Switch (DES), as neither the DES nor Liberty Star-3 (LS-3) switch is on the Approved Product List. The use of these switches also limits the ability to maintain information assurance certification for HFGCS. Removing the IDPX-1000 DES and LS-3 from the HFGCS and replacing them with Open Architecture, non-proprietary, commercially available, modular components ensures the circuit interfaces are compatible with DISA architecture evolution as identified in the DISN Technical Evolution Plan and the DISN Overarching Technical Strategy 2011. This follows the effort in FY17 which demonstrates the Network Control Station capability. Installation of the final ACF capability will be in FY20-21. This continues the transition of the HFGCS network from an analog based to internet protocol (IP) based network.</p> <p>B. FY18 funding purchases replacement system test equipment for installation in the 13 stations and will update the existing Control and Management System (CCMS) software to control the replacement equipment. The existing Hekimian System Test Equipment is obsolete and no longer supportable by the manufacturer. The test equipment is critical to maintaining operational capability of the radio and antenna equipment for efficient operation.</p> <p>C. FY18 funding purchases 15 new Receive Matrices and installs them at the 13 stations, with one installation at the Systems Integration Lab and 1 spare. The funding will also update existing CCMS software to control the new Receive Matrix. The existing receive matrices have become obsolete and there are no longer spare parts manufactured to maintain the capability to interface between the radios and antennas.</p> <p>D. Next Generation Console/Unified Capabilities: No Budget Year (FY18) funding requested..</p> <p>2. HIGH FREQUENCY GLOBAL ANTENNA REPLACEMENT: A majority of the HFGCS system antennas have been in operation for 25 to 40 years and have been subjected to degradation due to exposure to severe environmental conditions, salt water, and hurricane force winds. FY18 funds continue the replacement of critical antennas at HFGCS sites; actual locations and antenna selections will be based on technical assessment of the antenna condition and the operational requirements of the weapon system during execution. Planned replacements for FY18 have been identified at Ascension, Croughton, and Offutt. Additionally mandatory surveys will be conducted to prepare for future antenna installations at Lajes, West Coast, Puerto Rico, Sigonella, Elmendorf, Yokota, and Hawaii scheduled for follow-on efforts.</p> <p>3. FY18 funds for program management administration costs will provide financial management, engineering and technical support for the program office. FY18 also funds Direct Mission Support, including support associated with equipment installation, engineering, technical orders, sustainment engineering, shipping, and implementation. This includes interoperability testing and technical interchange meetings.</p>		

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base	<b>P-1 Line Item Number / Title:</b> 837240 / CCTV/Audiovisual Equipment
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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> )	-	6.144	7.449	5.480	0.000	5.480	9.065	5.114	5.209	5.302	-	43.763
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	6.144	7.449	5.480	0.000	5.480	9.065	5.114	5.209	5.302	-	43.763
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>6.144</b>	<b>7.449</b>	<b>5.480</b>	<b>0.000</b>	<b>5.480</b>	<b>9.065</b>	<b>5.114</b>	<b>5.209</b>	<b>5.302</b>	-	<b>43.763</b>

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

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

**Description:**

The FY17 funding request was reduced by \$.009M to account for the availability of prior year execution balances.

Visual Information Activities - Strategic PE 0102890F - P-40A

Imagery Acquisition and Audiovisual (AV) systems and their products are used throughout the Air Force to inform and train warfighters and to document combat operations and other events of historical significance. Combat video documentation is used for operational reporting and analysis, situational awareness, battle damage assessment, intelligence and operational analysis, casualty identification, and the historical record. In addition, video and multimedia based products are developed for warfighter operations, readiness training, medical videography, public and internal information, testing and evaluation, and corporate communications. Commanders recognize that imagery quickly conveys very accurate and unbiased information, and are requiring greater amounts of video imagery to help meet the challenges of a very active warfighting force. The Air Force is meeting this challenge by dedicating funding to procure and sustain this important capability by replacing older video studio systems with newer and more capable equipment and systems for both Air Force video production and combat/contingency documentation teams. Imagery acquisition systems are centrally managed to establish and maintain standardization of systems, as well as to ensure full interoperability with all other electronic image acquisition, transmission system formats, and presentation systems used in the Air Force.

**Justification:**

Visual Information Activities - Strategic PE 0102890F - P-40A

FY18 Funds procure items to meet AF mandates from CJCSI 3205.01C, DODI 5040.02, and AFI 35-109. These policy documents exist to ensure DoD and AF compliance with public laws: 36 CFR 1237/1220 and Title 44 Chapters 3301/3101. These funds are used for audio/visual equipment funding at the only three AF active duty COMCAM squadrons, which provide lobal/deployable rapid response during wartime operations, worldwide crises, contingencies, joint exercises, and humanitarian operations. Additionally, these funds procure audio/visual equipment supporting AF-wide(garrison and deployed) needs for photo, graphics and video products that aid public diplomacy, internal/external communication, information operations, operational/planning efforts, and effective/efficient training.

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base **P-1 Line Item Number / Title:** 837300 / Base Comm Infrastructure

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

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

Resource Summary	Prior Years	FY 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> )	-	83.730	169.715	130.539	55.000	185.539	167.083	130.341	125.944	75.866	-	938.218
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	83.730	169.715	130.539	55.000	185.539	167.083	130.341	125.944	75.866	-	938.218
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>83.730</b>	<b>169.715</b>	<b>130.539</b>	<b>55.000</b>	<b>185.539</b>	<b>167.083</b>	<b>130.341</b>	<b>125.944</b>	<b>75.866</b>	-	<b>938.218</b>

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

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

**Description:**

This is a FY17 New Start

AF Offensive Cyberspace Operations - PE 0208087F - P-40A

Air Education and Training Command (AETC) Cyber Workforce Training: Procure equipment to support emergency warfighting readiness requirements and increase scalability and capacity. Establishes network protection and replaces vulnerability intrusion detection system. This program will procure Cisco switches and routers, servers, network traffic generators, fiber optic cabling, software, simulators, and required network components to support the Cyberspace mission requirements.

MQ-9 Unmanned Aerial Vehicle (UAV) PE 0205219F - P-40A

MQ-9 Reaper Squadron Operations Center (SOC) Communications Infrastructure Equipment: This equipment supports MQ-9 SOCs which provide critical mission data and tasking information to the aircrew and disseminate and/or exchange mission data with decision-makers and the intelligence community.

MINUTEMAN Communications PE 0101323F - P-40A

This equipment supports the Minuteman Minimum Essential Communication Network (MEECN) Program (MMP) with Very Low Frequency (VLF) cable infrastructure. The underground cables at Intercontinental Ballistic Missile (ICBM) Launch Control Centers (LCCs) are aging and require replacement. All cables available for salvage have been harvested and the stockpile has been depleted. This program supports the nuclear mission by providing an adequate bench stock to ensure a survivable nuclear communications path from the POTUS/SECDEF to ICBM forces in the field.

F-22A Squadrons PE 0207138F - P-40A

F-22 Communications Infrastructure Equipment: This equipment provides communications equipment in support of F-22 Raptor wing headquarters, operational, and maintenance squadrons. Base communications infrastructure is essential to meet evolving Warfighter mission requirements.

Engineering and Installation (E&I) - Air Force PE 0207436F - P-40A

Air Force Space Command (AFSPC) Lead Command Base Communications Infrastructure: E&I supports enterprise network capability and life cycle replacement of common user communications systems, AF Network Defensive capabilities, as well as Installation Emergency Management (IEM) infrastructure. E&I funds support communications availability and reliability, providing consistent, compatible, and interoperable capability through advanced technology and architecture. Installations include network communications infrastructure, fiber optic and copper cabling, and associated manhole duct systems for cable projects.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>Contingency Operations PE 0208028F - P-40A            U.S. Air Forces in Europe and Air Forces Africa (USAFE-AFAFRICA) Contingency Operations Infrastructure Equipment: Contingency Operations equipment provides the integrated capability needed to establish and maintain air base readiness during contingencies. Infrastructure equipment will enable integration and coordination of those unit operations that interact during a contingency to establish, maintain or restore the installation's capability to execute its assigned mission.</p> <p>Cyber Command (CYBERCOM) Activities PE 0208059F - P-40A            USCYBERCOM Communications Infrastructure: USCYBERCOM responsibilities include planning and coordinating Computer Network Operations (CNO) capabilities; operational and tactical level planning and day-to-day employment of assigned and attached Offensive Cyber Operations forces; planning and coordination of cyber capabilities that have trans-regional effects or that directly support national objectives; and providing Offensive and Defensive Cyber Operations support for assigned missions. Base communications infrastructure (e.g., servers, routers, Local Area Networks (LANs), End Building Node (EBN) hardware) supports ongoing USCYBERCOM activities.</p> <p>Information Technology Services Management - Tactical Air Forces PE 0208550F - P-40A            a. Air Force Special Operations Command (AFSOC) Base Communications Infrastructure Equipment: This equipment supports more than 18,000 AFSOC active-duty, Air Force Reserve, Air National Guard and civilian personnel and allow AFSOC to meet the mission of presenting combat ready forces to conduct and support global special operations missions. Funds end of life IT connect infrastructure to provide dial tone and Internet access across the AFSOC enterprise. This is a continuing requirement, where aging legacy components are no longer funded through other cyber portfolios and each MAJCOM must replace these critical components.            b. Pacific Air Forces (PACAF) Base Communications Infrastructure Equipment: PACAF network equipment and life cycle replacement of base information technology systems supports base operations, command-wide connectivity, and transformation efforts. The large geographic separation between PACAF units significantly raises the importance of a robust communications infrastructure to ensure war fighter access to secure voice, data, and video systems.            c. Air Combat Command (ACC) Base Communications Infrastructure Equipment: ACC base communications funds support life cycle management of network servers, routers, ductwork, cables, LANs, voice and data switches, Land Mobile Radio (LMR) systems, and end building node hardware. This infrastructure meets the requirements of ACC's 143,000 active-duty, Air Force Reserve, Air National Guard and civilian personnel at 11 major bases and 7 associated units throughout the United States.            d. USAFE-AFAFRICA Base Communications Infrastructure Equipment: USAFE-AFAFRICA base communications funding supports the acquisition, and installation of base network infrastructures, especially C2 communications, located at USAFE-AFAFRICA Main Operating Bases (MOBs) and Geographically Separated Units (GSUs) consisting of a HQ, one numbered Air Force, seven MOBs and 137 GSUs. Specific critical base communications infrastructure provide support for Headquarters, Warfighting Numbered Air Force and Operational wings, flight support, emergency actions, and the operational planning, delivering, sustaining, integrating, and managing of USAF communications capabilities, networks, and applications in the USEUCOM and USAFRICOM theaters based on geographical combatant command orders and plans. Base communications infrastructure is required to support the European Infrastructure Consolidation (EIC) which is an OSD-directed process to restructure basing of forces within the European Command (EUCOM) Area of Responsibility (AOR). FY16 funding totals include \$15.400M for Overseas Contingency Operations (OCO).</p> <p>Long-Haul Communications - DCS PE 0303126F - P-40A            USAFE Long Haul Communications Infrastructure Equipment: The Technical Control Facility Program replaces circuit distribution systems in technical control facilities and throughout base communications infrastructure. This capability addresses USAFE distribution of circuits from the long haul point of presence to the on-base circuit termination point. Distribution equipment using copper cable is being replaced by fiber optic equipment. Additionally, the Joint Intelligence Analysis Center (JIAC) is being moved as part of the EIC program from RAF Molesworth to RAF Croughton. This relocation requires extensive long haul infrastructure upgrades at RAF Croughton and communications equipment to support dual operations at RAF Croughton and RAF Molesworth.</p> <p>Theater Nuclear Weapon Storage &amp; Security System PE 0305155F - P-40A            Theater Nuclear Weapon Storage and Security System (WS3) Communications Infrastructure Equipment: Funds support the procurement, integration, and installation of commercial off-the-shelf (COTS) communications equipment and alarm processing equipment and software associated with the Alarm Communications and Display (AC&amp;D) system, security assessment enhancements, and fiber optic cable purchase and installation at multiple OCONUS nuclear capable WS3 locations. These efforts directly impact sustainment efforts for the aging WS3 system and NATO's nuclear deterrence mission.</p> <p>Information Technology Services Management - Other PE 0305550F - P-40A</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>a. Air Force District of Washington (AFDW) Base Communications Network Equipment: Funds support the procurement of communications infrastructure replacements for AFDW's classified and unclassified networks. These efforts directly impact accomplishment of the AF mission at all levels such as strategic decision making, execution of operations, and support to US senior leadership including the POTUS, SECDEF, CJCS, and the CSAF. This is a continuing requirement.</p> <p>b. AFSPC Base Communications Infrastructure Equipment: Procurements ensure base-level network access for more than 40,000 AFSPC professionals including military, civilians and contractors. Funding supports base operations by providing required AFSPC-wide hardware and software purchases, ensuring the deployment of consistent, compatible, and interoperable communications technology. This is a continuing requirement.</p> <p>Communications and Information Technology PE 0308611F - P-40A  AFSPC Communications Infrastructure Equipment: Funds enable timely and assured delivery of data and voice communications supporting a wide range Air Force organizations and decision makers. This program provides AFSPC with effective C2 of information systems by procuring robust enterprise communications infrastructure that every worker, office, and organization depends on to perform their mission. This funding supports life cycle management of network servers, routers, ductwork, cables, LANs, voice and data switches, Land Mobile Radio (LMR) systems, and end building node hardware in order to maintain consistent, compatible, and interoperable infrastructure and architecture. Funds are also needed to provide communications infrastructure to meet evolving mission requirements, support military construction projects and handle the multitude of smaller, individual communications, computer, air traffic control and weather instrumentation connectivity needs. This funding will be executed by one or all of the following: Air Force Network Integration Center, Air Force Spectrum Management Office, AFSPC Cyber Support Squadron or HQ AFSPC</p> <p>Information Technology Services Management - Mobility Air Forces PE 0408550F - P-40A  Air Force District Washington (AFDW) Base Communications Infrastructure Equipment: Funds support network infrastructure replacements and AFDW's classified and unclassified networks. These efforts directly support strategic decision making, execution of operations, and support to US senior leadership including the POTUS, SECDEF, CJCS, and the CSAF. This is a continuing requirement.</p> <p>Information Technology Services Management - AFR PE 0505550F - P-40A  Air Force Reserve Command (AFRC) Base Communications Infrastructure Equipment: Funds provide for recapitalization, and support of AFRC base communications infrastructure. AFRC is an AF MAJCOM consisting of a HQ, three Numbered Air Forces (NAFs), 45 flying wings/groups and more than 40 GSUs; Air Reserve Personnel Center (ARPC) and the Major Command Coordinating Center (MCCC). Funding supports AFR-wide programs providing base communications infrastructure consistency. Funding provides AFR-wide hardware and software purchases, thus ensuring the deployment of consistent, compatible, and interoperable technology and architecture. This is a continuing requirement.</p> <p>In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the armed forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>Information Technology Services Management - ANG PE 0508550F - P-40A  Air National Guard (ANG) Base Communications Infrastructure Equipment: Funding supports the operations, maintenance, and sustainment of IT components, infrastructure, and processes enabling effective operations and defense of the ANG enterprise portion of the Air Force Network (AFNet). Funds provide for IT life cycle support for 90 ANG Main Operating Bases (MOB), 153 GSUs, and the 299th Cyber Security Control (CSCS) weapon system. Funds support ANG-wide base communications infrastructure projects consistent with AF IT standards and for compatibility of the ANG enterprise with the AF and Department of Defense (DoD) centralized networks. A major component of this funding is to support the procurement and implementation of a robust Installation Notification and Warning System (INWS) that provides Giant Voice, Indoor Alerts, Telephone call/text alerts, software for computer alerts, and other alerting methods to meet DOD and Federal warning requirements for all ANG bases. This is a continuing requirement.</p> <p>In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the armed forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>Information Technology Services Management - Logistics PE 0708550F - P-40A  Air Force Materiel Command (AFMC) Base Communications infrastructure Equipment: Funding allows AFMC to support AF operations by sustaining critical cyber systems that provide timely and assured delivery of data and voice communications for organizations at nine AFMC installations with 100,000 personnel. Funding directly supports the warfighter on a 24/7 operational basis by providing AFMC the ability</p>		

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

to deliver cyber capabilities to sustain aircraft sortie generation rates, weapon systems availability, system operational testing, and timely acquisition of equipment parts. This program is vital for AFMC's life cycle management of network servers, service desk, repair of critical communications infrastructure, routers, ductwork, cables, Land Area Networks (LANs), voice and data switches, and Mass Notifications and Land Mobile Radio (LMR) systems. Funding allows for end-of-life replacement of end building node network, data and voice hardware that complies with AF cyber architecture enterprise standards.

Information Technology Services Management - Training PE 0808550F - P-40A  
 Air Education and Training Command (AETC) Base Communications Infrastructure Equipment: Funds support base-approved and MAJCOM-validated communications requirements as identified in base communications blueprints. These requirements include flying and technical training, education, recruiting, and accession mission, command and control, as well as first responder services at all 11 AETC bases. This is a continuing requirement.

	<b>Secondary Distribution</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
AF	Quantity	0	0	0	0	0	0	0	0	0
	Total Obligation Authority	79.635	111.107	114.554	55.000	169.554	0.000	0.000	0.000	0.000
AFNG	Quantity	0	0	0	0	0	0	0	0	0
	Total Obligation Authority	3.828	58.281	10.648	0.000	10.648	9.028	9.188	9.353	9.521
AFR	Quantity	0	0	0	0	0	0	0	0	0
	Total Obligation Authority	0.267	0.327	5.337	0.000	5.337	0.343	0.349	0.355	0.361
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total Obligation Authority</b>	<b>83.730</b>	<b>169.715</b>	<b>130.539</b>	<b>55.000</b>	<b>185.539</b>	<b>9.371</b>	<b>9.537</b>	<b>9.708</b>	<b>9.882</b>



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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base **P-1 Line Item Number / Title:** 837300 / Base Comm Infrastructure

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

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

Exhibits Schedule					Prior Years	FY 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	Contingency Operations				- / -	- / 2.499	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40a	Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities)				- / -	- / 3.952	- / 41.817	- / 0.000	- / 0.000	- / 0.000
P-40a	AF Offensive Cyberspace Operations				- / -	- / 0.000	- / 13.000	- / 0.000	- / 0.000	- / 0.000
P-40a	Communications and Information Technology				- / -	- / 0.000	- / 5.812	- / 5.956	- / 0.000	- / 5.956
P-40a	MQ-9 UAV				- / -	- / 0.000	- / 0.000	- / 7.529	- / 0.000	- / 7.529
P-40a	F-22A Squadrons				- / -	- / 0.492	- / 0.971	- / 0.000	- / 0.000	- / 0.000
P-40a	Engineering and Installation - Air Force				- / -	- / 14.776	- / 0.000	- / 17.568	- / 0.000	- / 17.568
P-40a	Information Technology Services Management - Tactical Air Forces				- / -	- / 19.821	- / 36.578	- / 51.651	- / 55.000	- / 106.651
P-40a	Long-Haul Communications - DCS				- / -	- / 0.199	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40a	Theater Nuclear Weapon Storage & Security System				- / -	- / 7.163	- / 6.159	- / 24.957	- / 0.000	- / 24.957
P-40a	Information Technology Services Management - Other				- / -	- / 28.645	- / 3.082	- / 3.166	- / 0.000	- / 3.166
P-40a	Information Technology Services Management - Mobility Air Forces				- / -	- / 0.000	- / 0.738	- / 0.758	- / 0.000	- / 0.758
P-40a	Information Technology Services Management - AFR				- / -	- / 0.267	- / 0.327	- / 5.337	- / 0.000	- / 5.337
P-40a	Information Technology Services Management - ANG				- / -	- / 3.828	- / 58.281	- / 10.648	- / 0.000	- / 10.648
P-40a	Information Technology Services Management - Logistics				- / -	- / 1.461	- / 1.785	- / 1.835	- / 0.000	- / 1.835
P-40a	Information Technology Services Management - Training				- / -	- / 0.627	- / 1.165	- / 1.134	- / 0.000	- / 1.134
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 83.730</b>	<b>- / 169.715</b>	<b>- / 130.539</b>	<b>- / 55.000</b>	<b>- / 185.539</b>

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

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

**Justification:**

This program, Base Comm Infrastructure P-40A Item Equipment, is a new start.

AF Offensive Cyberspace Operations PE 0208087F - P-40A

AETC Cyberspace Workforce Training is required to address emergency warfighting readiness requirements. Funding is required for AETC to adjust the Cyber Initial Skills Training (IST) course content and length to meet operational unit training needs to include increasing Cyberspace Mission Force student throughput. Enables the 24 AF to meet USCYBERCOM directed IOC/FOC timelines by FY18. No FY18 Funding requested.

MQ-9 Unmanned Aerial Vehicle (UAV) PE 0205219F - P-40A

MQ-9 Reaper Squadron Operations Center (SOC) Communications Infrastructure Equipment: FY18 funds are required for the procurement and installation of hardware and software at MQ-9 SOCs to enable mission communications and exchange of mission data necessary for the employment of Remote Split Operations for MQ-9 Reaper missions.

MINUTEMAN Communications PE 0101323F - P-40A

No FY18 funding requested.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>F-22A Squadrons PE 0207138F - P-40A F-22 Communications Infrastructure Equipment: No FY18 funding requested.</p> <p>Engineering and Installation - Air Force PE 0207436F - P-40A Air Force Space Command (AFSPC) Lead Command Base Communications Infrastructure: FY18 E&amp;I funds ensure life cycle support to keep base communications infrastructure on pace with current technological developments. FY18 funds provide base communications infrastructure support to include LMR system replacement, communications cable reutilization and redistribution, and base telephone switch replacement.</p> <p>Contingency Operations PE 0208028F - P-40A U.S. Air Forces in Europe and Air Forces Africa (USAFE-AFAFRICA) Contingency Operations Infrastructure Equipment: No FY18 funding requested.</p> <p>Cyber Command (CYBERCOM) Activities PE 0208059F - P-40A USCYBERCOM Communications Infrastructure: FY18 funding requested.</p> <p>Information Technology Services Management - Tactical Air Forces PE 0208550F - P-40A a. Air Force Special Operations Command (AFSOC) Base Communications Infrastructure Equipment: FY18 funds will be used by AFSOC to recapitalize data, voice, and video equipment supporting AFSOC forces organized under three active-duty wings, one reserve wing, one National Guard wing, two overseas groups, and several direct reporting units. b. Pacific Air Forces (PACAF) Base Communications Infrastructure Equipment: FY18 funding supports PACAF's acquisition and installation of Unified Capabilities (UC) and communications infrastructure at remote and Geographically Separated Unit (GSU) locations. Procurements include VoIP solutions to replace the obsolete telephone switches and communications infrastructure supporting C2 for deploying squadrons at these (flex base) locations. This capability directly supports COMPACAF's adaptive combat employment strategy for the Pacific theater. c. Air Combat Command (ACC) Base Communications Infrastructure Equipment: FY18 funds continue life cycle support of base communications infrastructure at ACC bases and replaces outdated network voice and data equipment hardware to meet mission requirements of ACC's C2 and mission support users. d. USAFE-AFAFRICA Base Communications Infrastructure Equipment: FY18 funds replace USAFE's outdated Land Mobile Radio distribution systems between intrabase communication networks/nodes thereby eliminating bottlenecks in trunking systems across USAFE-AFAFRICA Main Operating Bases (MOBs) and GSUs. Base network infrastructure procurements meet network communications requirements for USAFE-AFAFRICA users at MOBS and GSUs. Additionally, FY18 funds procure communications infrastructure in support of the EIC program.</p> <p>Long-Haul Communications - DCS PE 0303126F - P-40A USAFE Long Haul Communications Infrastructure Equipment: FY18 funding will procure equipment to support dual Joint Intelligence Analysis Center (JIAC) operations at RAF Croughton and RAF Molesworth. Dual homing acquisition includes site end equipment purchases/installations.</p> <p>Theater Nuclear Weapon Storage &amp; Security System PE 0305155F - P-40A Theater Nuclear Weapon Storage and Security System (WS3) Communications Infrastructure Equipment: FY18 funding supports the procurement and installation of communications and alarm equipment, buried fiber optic cable, encryption modernization, and increased security assessment capabilities for multiple OCONUS locations in support of the NATO nuclear deterrence mission in Europe.</p> <p>Information Technology Services Management - Other PE 0305550F - P-40A a. Air Force District Washington (AFDW) Base Communications Network Equipment: FY18 funds procure wide and local area network hardware (i.e., servers, routers, hubs and network systems) at Joint Base Anacostia-Bolling, Joint Base Andrews, and Headquarters Air Force. This program invests in office automation systems and computer networks in order to procure high-quality, high-speed connections to both public and classified network, and equipment required to react to emerging and emergency mission requirements in the National Capital Region (NCR). b. AFSPC Base Communications Infrastructure Equipment: FY18 funding supports AFSPC-wide network communications hardware and software purchases.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>Communications and Information Technology PE 0308611F - P-40A            AFSPC Communications Infrastructure Equipment: FY18 funds ensure AF enterprise and base-level network access for more than 615,000 Total Force professionals including military, civilians and contractors. Funding supports enterprise and base operations by providing required AF and AFSPC-wide hardware and software purchases, ensuring the deployment of consistent, compatible, and interoperable communications technology to support Joint Information Enterprise efforts across the AF. Hardware and software purchases may include routers, switches, and other network systems to support UC capabilities and the joint enterprise.</p> <p>Information Technology Services Management - Mobility Air Forces PE 0408550F - P-40A            Air Force District Washington (AFDW) Base Communications Infrastructure Equipment: FY18 funds procure wide and local area network at Joint Base Anacostia-Bolling, Joint Base Andrews, and Headquarters Air Force. This program invests in office automation systems and computer networks to support high-quality, high-speed connections to public and classified networks in support of National Capitol Region (NCR) mission requirements.</p> <p>Information Technology Services Management - AFR PE 0505550F - P-40A            Air Force Reserve Command (AFRC) Base Communications Infrastructure Equipment: FY18 funds support data, voice, and video projects to promote compatibility with the AF "Active" component architectures. In addition to funding AFR-wide programs. Funds also acquire equipment for life cycle support of critical base-level communications infrastructure requirements.</p> <p>Information Technology Services Management - ANG PE 0508550F - P-40A            Air National Guard (ANG) Base Communications Infrastructure Equipment: FY18 funds continue to support installation of command purchased information technology and software to maintain a consistent, compatible, and interoperable infrastructure and architecture. This functionality ensures compatibility of ANG networks with the AF Enterprise.</p> <p>Information Technology Services Management - Logistics PE 0708550F - P-40A            Air Force Materiel Command (AFMC) Communications Infrastructure Equipment: FY18 funds support command wide and base approved, MAJCOM validated communications requirements. These provide base life cycle management of AFMC's classified and unclassified network server consolidation, Land Mobile Radio (LMR) systems, routers, voice and data switches, ductwork, cabling, and end building node hardware that support UC and communications infrastructure. Procurements include VoIP solutions to replace the obsolete telephone switches and communications infrastructure.</p> <p>Information Technology Services Management - Training PE 0808550F - P-40A            Air Education and Training Command (AETC) Base Communications Infrastructure Equipment: FY18 funds will be used to continue the process of replacing AETC legacy base LAN infrastructure originally designed to carry data only in order to comply with the increased reliability required under Assured Service LAN (ASLAN) as other services (e.g., voice, enterprise LMR) are transitioned to the LAN.</p>		

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 7 **P-1 Line Item Number / Title:** 837300 / Base Comm Infrastructure **Aggregated Items Title:** Contingency Operations

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
USAFE-AFAFRICA Contingency Operations Infrastructure	A		-	-	-	-	-	2.499	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	2.499	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>2.499</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>2.499</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>														<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7						<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure						<b>Aggregated Items Title:</b> Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities)							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>USCYBER COMMAND</b>																				
USCYBERCOM Communications Infrastructure	A		-		-	-		3.952			41.817			0.000			0.000			0.000
<i>Secondary Distribution</i>																				
AF				-	-			3.952			41.817			0.000			0.000			0.000
<b>Subtotal: USCYBER COMMAND</b>			-		-	-		<b>3.952</b>			<b>41.817</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
<b>Total</b>			-		-	-		<b>3.952</b>			<b>41.817</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>

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

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Aggregated Items Title:</b> AF Offensive Cyberspace Operations
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
AF Cyberspace Ops	A		-	-	-	-	-	0.000	-	-	13.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	13.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>13.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>13.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date:</b> May 2017				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7						<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure						<b>Aggregated Items Title:</b> Communications and Information Technology							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>AFSPC</b>																				
AFSPC Communications Infrastructure Equipment	A		-	-	-	-	-	0.000	-	-	5.812	-	-	5.956	-	-	0.000	-	-	5.956
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	5.812	-	-	5.956	-	-	0.000	-	-	5.956
<b>Subtotal: AFSPC</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>5.812</b>	-	-	<b>5.956</b>	-	-	<b>0.000</b>	-	-	<b>5.956</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>5.812</b>	-	-	<b>5.956</b>	-	-	<b>0.000</b>	-	-	<b>5.956</b>

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

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 7 **P-1 Line Item Number / Title:** 837300 / Base Comm Infrastructure **Aggregated Items Title:** MQ-9 UAV

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
PMA Other Government Costs	A		-	-	-	-	-	0.000	-	-	0.000	-	-	2.232	-	-	0.000	-	-	2.232
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.000	-	-	2.232	-	-	0.000	-	-	2.232
Equipment	A		-	-	-	-	-	0.000	-	-	0.000	-	-	5.297	-	-	0.000	-	-	5.297
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.000	-	-	5.297	-	-	0.000	-	-	5.297
<b>Subtotal: Uncategorized</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>7.529</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>7.529</b>
<b>Total</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>7.529</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>7.529</b>

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



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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 7 **P-1 Line Item Number / Title:** 837300 / Base Comm Infrastructure **Aggregated Items Title:** F-22A Squadrons

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
F-22A Communications Infrastructure Equipment	A		-	-	-	-	-	0.492	-	-	0.971	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.492	-	-	0.971	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.492</b>	-	-	<b>0.971</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>0.492</b>	-	-	<b>0.971</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Aggregated Items Title:</b> Engineering and Installation - Air Force
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>AFSPC E&amp;I</b>																				
AFSPC Lead Command Base Communications Infrastructure	A		-	-	-	-	-	14.776	-	-	0.000	-	-	17.568	-	-	0.000	-	-	17.568
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	14.776	-	-	0.000	-	-	17.568	-	-	0.000	-	-	17.568
<b>Subtotal: AFSPC E&amp;I</b>			-	-	-	-	-	<b>14.776</b>	-	-	<b>0.000</b>	-	-	<b>17.568</b>	-	-	<b>0.000</b>	-	-	<b>17.568</b>
<b>Total</b>			-	-	-	-	-	<b>14.776</b>	-	-	<b>0.000</b>	-	-	<b>17.568</b>	-	-	<b>0.000</b>	-	-	<b>17.568</b>

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

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F / 03 / 7

**P-1 Line Item Number / Title:**  
837300 / Base Comm Infrastructure

**Aggregated Items Title:**  
Information Technology Services  
Management - Tactical Air Forces

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>ITSM - Tactical AF's</b>																				
AFSOC Base Communications Infrastructure Equipment	A		-	-	-	-	-	0.543	-	-	0.665	-	-	2.435	-	-	0.000	-	-	2.435
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.543	-	-	0.665	-	-	2.435	-	-	0.000	-	-	2.435
PACAF Base Communications Infrastructure Equipment	A		-	-	-	-	-	0.655	-	-	0.634	-	-	0.652	-	-	0.000	-	-	0.652
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.655	-	-	0.634	-	-	0.652	-	-	0.000	-	-	0.652
ACC Base Communications Infrastructure Equipment	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000
USAFE-AFAFRICA Base Communications Infrastructure Equipment	A		-	-	-	-	-	18.623	-	-	35.279	-	-	48.564	-	-	55.000	-	-	103.564
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	18.623	-	-	35.279	-	-	48.564	-	-	55.000	-	-	103.564
<b>Subtotal: ITSM - Tactical AF's</b>			-	-	-	-	-	<b>19.821</b>	-	-	<b>36.578</b>	-	-	<b>51.651</b>	-	-	<b>55.000</b>	-	-	<b>106.651</b>
<b>Total</b>			-	-	-	-	-	<b>19.821</b>	-	-	<b>36.578</b>	-	-	<b>51.651</b>	-	-	<b>55.000</b>	-	-	<b>106.651</b>

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

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7							<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure								<b>Aggregated Items Title:</b> Long-Haul Communications - DCS				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
USAFE Technical Control Facility Program Equipment	A		-	-	-	-	-	0.199	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		-	0.199		-	0.000		-	0.000		-	0.000		-	0.000
European Infrastructure Consolidation (EIC) Communications Equipment	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	0.000		-	0.000		-	0.000		-	0.000
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>0.199</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Total</b>			-	-	-	-	-	<b>0.199</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7						<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure						<b>Aggregated Items Title:</b> Theater Nuclear Weapon Storage & Security System							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total					
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)			
<b>Theater Nuclear WS3</b>																							
Theater Nuclear Weapon Storage and Security System (WS3) Communications Infrastructure Equipment	A		-		-	-		7.163			6.159	-		-	24.957	-		-	0.000	-		-	24.957
<i>Secondary Distribution</i>																							
AF			-		-		7.163			6.159		-		24.957		-		0.000		-		-	24.957
<b>Subtotal: Theater Nuclear WS3</b>			-		-		<b>7.163</b>			<b>6.159</b>		-		<b>24.957</b>		-		<b>0.000</b>		-		-	<b>24.957</b>
<b>Total</b>			-		-		<b>7.163</b>			<b>6.159</b>		-		<b>24.957</b>		-		<b>0.000</b>		-		-	<b>24.957</b>

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**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Aggregated Items Title:</b> Information Technology Services Management - Other
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>ITSM - Other</b>																				
AFDW Base Communications Network Equipment	A		-	-	-	-	-	3.483	-	-	3.082	-	-	3.166	-	-	0.000	-	-	3.166
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	3.483	-	-	3.082	-	-	3.166	-	-	0.000	-	-	3.166
AFSPC Base Communications Infrastructure Equipment	A		-	-	-	-	-	25.162	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	25.162	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: ITSM - Other</b>			-	-	-	-	-	<b>28.645</b>	-	-	<b>3.082</b>	-	-	<b>3.166</b>	-	-	<b>0.000</b>	-	-	<b>3.166</b>
<b>Total</b>			-	-	-	-	-	<b>28.645</b>	-	-	<b>3.082</b>	-	-	<b>3.166</b>	-	-	<b>0.000</b>	-	-	<b>3.166</b>

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**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Aggregated Items Title:</b> Information Technology Services Management - Mobility Air Forces
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>ITSM - Mobility AF's</b>																				
AFDW Base Communications Infrastructure Equipment	A		-	-	-	-	-	0.000	-	-	0.738	-	-	0.758	-	-	0.000	-	-	0.758
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.738	-	-	0.758	-	-	0.000	-	-	0.758
<b>Subtotal: ITSM - Mobility AF's</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.738</b>	-	-	<b>0.758</b>	-	-	<b>0.000</b>	-	-	<b>0.758</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.738</b>	-	-	<b>0.758</b>	-	-	<b>0.000</b>	-	-	<b>0.758</b>

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7						<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure						<b>Aggregated Items Title:</b> Information Technology Services Management - AFR							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>ITSM - AFR</b>																				
AFRC Base Communications Infrastructure Equipment	A		-	-	-	-	-	0.267	-	-	0.327	-	-	5.337	-	-	0.000	-	-	5.337
<i>Secondary Distribution</i>																				
AFR			-	-	-	-	-	0.267	-	-	0.327	-	-	5.337	-	-	0.000	-	-	5.337
<b>Subtotal: ITSM - AFR</b>			-	-	-	-	-	<b>0.267</b>	-	-	<b>0.327</b>	-	-	<b>5.337</b>	-	-	<b>0.000</b>	-	-	<b>5.337</b>
<b>Total</b>			-	-	-	-	-	<b>0.267</b>	-	-	<b>0.327</b>	-	-	<b>5.337</b>	-	-	<b>0.000</b>	-	-	<b>5.337</b>

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7	<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure	<b>Aggregated Items Title:</b> Information Technology Services Management - ANG
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>ITSM - ANG</b>																				
ANG Base Communications Infrastructure Equipment	A		-	-	-	-	-	3.828	-	-	58.281	-	-	10.648	-	-	0.000	-	-	10.648
<i>Secondary Distribution</i>																				
AFNG			-	-	-	-	-	3.828	-	-	58.281	-	-	10.648	-	-	0.000	-	-	10.648
<b>Subtotal: ITSM - ANG</b>			-	-	-	-	-	<b>3.828</b>	-	-	<b>58.281</b>	-	-	<b>10.648</b>	-	-	<b>0.000</b>	-	-	<b>10.648</b>
<b>Total</b>			-	-	-	-	-	<b>3.828</b>	-	-	<b>58.281</b>	-	-	<b>10.648</b>	-	-	<b>0.000</b>	-	-	<b>10.648</b>

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date:</b> May 2017				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7							<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure								<b>Aggregated Items Title:</b> Information Technology Services Management - Logistics				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>ITSM - Logistics</b>																				
AFMC Base Communications Infrastructure Equipment	A		-	-	-	-	-	1.461	-	-	1.785	-	-	1.835	-	-	0.000	-	-	1.835
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.461	-	-	1.785	-	-	1.835	-	-	0.000	-	-	1.835
<b>Subtotal: ITSM - Logistics</b>			-	-	-	-	-	<b>1.461</b>	-	-	<b>1.785</b>	-	-	<b>1.835</b>	-	-	<b>0.000</b>	-	-	<b>1.835</b>
<b>Total</b>			-	-	-	-	-	<b>1.461</b>	-	-	<b>1.785</b>	-	-	<b>1.835</b>	-	-	<b>0.000</b>	-	-	<b>1.835</b>

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date:</b> May 2017				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 7						<b>P-1 Line Item Number / Title:</b> 837300 / Base Comm Infrastructure						<b>Aggregated Items Title:</b> Information Technology Services Management - Training							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>ITSM - Training</b>																				
AETC Base Communications Infrastructure Equipment	A		-	-	-	-	-	0.627	-	-	1.165	-	-	1.134	-	-	0.000	-	-	1.134
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.627	-	-	1.165	-	-	1.134	-	-	0.000	-	-	1.134
<b>Subtotal: ITSM - Training</b>			-	-	-	-	-	<b>0.627</b>	-	-	<b>1.165</b>	-	-	<b>1.134</b>	-	-	<b>0.000</b>	-	-	<b>1.134</b>
<b>Total</b>			-	-	-	-	-	<b>0.627</b>	-	-	<b>1.165</b>	-	-	<b>1.134</b>	-	-	<b>0.000</b>	-	-	<b>1.134</b>

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

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications **P-1 Line Item Number / Title:** 838010 / Comm Elect Mods

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0305111F, 0305909F, 0305912F, 1203699F **Other Related Program Elements:** 0305111F, 0305114F, 0305909F

**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> )	85.840	78.650	69.500	70.798	0.000	70.798	79.313 <sup>(a)</sup>	61.384 <sup>(b)</sup>	60.666 <sup>(c)</sup>	57.347 <sup>(d)</sup>	-	563.498 <sup>(e)</sup>
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	85.840	78.650	69.500	70.798	0.000	70.798	79.313	61.384	60.666	57.347	-	563.498
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>85.840</b>	<b>78.650</b>	<b>69.500</b>	<b>70.798</b>	<b>0.000</b>	<b>70.798</b>	<b>79.313</b>	<b>61.384</b>	<b>60.666</b>	<b>57.347</b>	-	<b>563.498</b>

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

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

**Description:**

In FY17, NAS Gen4 Mod (Capability Improvement) in PE 0305137F was a new start.  
 In FY17, ATCALs Deployable TACAN Retrofit / Refurbishment in PE 0305114F was a new start.  
 FY17 funding totals include \$3.800M for Overseas Contingency Operations.

**Shared Early Warning (SEW) PE 0308699F**

The Shared Early Warning System (SEWS) - SEWS provides accurate and timely ballistic missile warning information generated by space-based infrared sensors. This information is distributed to three Combatant Commands (USEUCOM, USCENCOM, USPACOM), NATO, and multiple foreign partner nations located within each of the serviced COCOMs. U.S. forces and foreign partner nations receive missile warning data via a dedicated communications network flowing from the Centralized Distribution Facility (CDF) at Peterson AFB, CO to secondary distribution facilities located with the COCOMs and distribution hubs located in foreign partner nation operations centers. Data segregation for the foreign nation partners is maintained through the use of approved cross domain solutions with unique rule sets that reflect Office of the Secretary of Defense policy regarding the dissemination of missile warning data to foreign nations. SEWS received funding to support incremental technical upgrades to replace outdated components and accommodate newer software products.

**PAVE PAWS Block 00 Update**

This effort was formerly called BPP Block 00 Update and was formerly funded in PE 0305912F. Starting FY18 it will be funded in PE 1203912F. The PAVE PHASED ARRAY WARNING SYSTEM (PAVE PAWS) is a ground based system with missions to support the Missile Correlation, Space Surveillance and Missile Defense Centers. These radars are located at Beale AFB, CA and Cod AFS, MA. The primary mission is to provide United States Strategic Command (USSTRATCOM) with credible Integrated Tactical Warning/Attack Assessment (ITW/AA) data on all Sea-Launched Ballistic Missiles (SLBMs) penetrating the coverage area and predicted impact (L&PI) data for attack assessment and response determination. The secondary mission is to provide credible data on all Inter-Continental Ballistic Missiles (ICBMs) penetrating the coverage area. The tertiary mission is to support the Space Situational Awareness (SSA) network providing near-earth satellite surveillance and tracking, reporting observational (metric), SOI on man-made satellites and maintenance of the space catalog to prevent the significantly increasing potential for collisions with national assets, including manned space platforms. The PAVE PAWS mission equipment and associated sustainment suites consist of a mix of unique, custom-built components that are increasingly more difficult to maintain due to availability of replacement parts and obsolete COTS based subsystems that are no longer supported by the original equipment manufacturers. In addition, radar transmit & receive components, processing equipment, and power distribution elements, and other radar front-end equipment are 30+ years old, highly inefficient, and require replacement. Without these replacements there is a high risk that equipment failures will cause unacceptable mission downtime in order to troubleshoot and repair.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications		<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0305111F, 0305909F, 0305912F, 1203699F	<b>Other Related Program Elements:</b> 0305111F, 0305114F, 0305909F
<b>Line Item MDAP/MAIS Code:</b> None		

**PAVE PAWS Block 01 Update**

This effort was formally called BPP Block 01 Update and was formerly funded in PE 0305912F. Starting FY18 it will be funded in PE 1203912F. The PAVE PHASED ARRAY WARNING SYSTEM (PAVE PAWS) is a ground based system with missions to support the Missile Correlation, Space Surveillance and Missile Defense Centers. These radars are located at Beale AFB, CA and Cod AFS, MA. The primary mission is to provide United States Strategic Command (USSTRATCOM) with credible Integrated Tactical Warning/Attack Assessment (ITW/AA) data on all Sea-Launched Ballistic Missiles (SLBMs) penetrating the coverage area and predicted impact (L&PI) data for attack assessment and response determination. The secondary mission is to provide credible data on all Inter-Continental Ballistic Missiles (ICBMs) penetrating the coverage area. The tertiary mission is to support the Space Situational Awareness (SSA) network providing near-earth satellite surveillance and tracking, reporting observational (metric), SOI on man-made satellites and maintenance of the space catalog to prevent the significantly increasing potential for collisions with national assets, including manned space platforms. The PAVE PAWS mission equipment and associated sustainment suites consist of a mix of unique, custom-built components that are increasingly more difficult to maintain due to availability of replacement parts and obsolete COTS based subsystems that are no longer supported by the original equipment manufacturers. In addition, radar transmit & receive components, processing equipment, and power distribution elements, and other radar front-end equipment are 30+ years old, highly inefficient, and require replacement. Without these replacements there is a high risk that equipment failures will cause unacceptable mission downtime in order to troubleshoot and repair.

**BMEWS Block 00 Update**

This effort was formally called BPP Block 00 Update and was formerly funded in PE 0305909F. Starting FY18 it will be funded in PE 1203909F. The Ballistic Missile Early Warning System (BMEWS) is a ground-based radar system whose primary mission of missile warning (MW) provides United States Strategic Command (USSTRATCOM) with credible Integrated Tactical Warning/Attack Assessment (ITW/AA) data on all Intercontinental Ballistic Missiles (ICBMs) penetrating the coverage area. This data includes an estimation of launch and predicted impact (L&PI) locations and times. Additionally, BMEWS provides USSTRATCOM and other users with ITW/AA data on Sea-Launched Ballistic Missiles (SLBMs) penetrating the coverage area. The Upgraded Early Warning Radar (UEWR) sites at Thule and Fylingdales have a co-primary mission of Missile Defense (MD) supporting the Missile Defense Agency (Clear scheduled for UEWR upgrade in 2016). The secondary mission of BMEWS supports the Space Situational Awareness (SSA) mission by providing near-earth satellite surveillance, tracking and identification as required by the Joint Space Operations Center, Alternate Space Operations Center, and the National Air and Space Intelligence Center. The BMEWS consists of: Thule Air Base, Greenland; Clear Air Force Station, AK; and Royal Air Force (RAF) Fylingdales, UK. Additionally there is a fourth site for testing (System Program Agency) located in the Centralized Integration Support Facility (CISF) at Peterson AFB, CO.

**BMEWS Block 01 Update**

This effort was formally called BPP Block 01 Update and was formerly funded in PE 0305909F. Starting FY18 it will be funded in PE 1203909F. The Ballistic Missile Early Warning System (BMEWS) is a ground-based radar system whose primary mission of missile warning (MW) provides United States Strategic Command (USSTRATCOM) with credible Integrated Tactical Warning/Attack Assessment (ITW/AA) data on all Intercontinental Ballistic Missiles (ICBMs) penetrating the coverage area. This data includes an estimation of launch and predicted impact (L&PI) locations and times. Additionally, BMEWS provides USSTRATCOM and other users with ITW/AA data on Sea-Launched Ballistic Missiles (SLBMs) penetrating the coverage area. The Upgraded Early Warning Radar (UEWR) sites at Thule and Fylingdales have a co-primary mission of Missile Defense (MD) supporting the Missile Defense Agency (Clear scheduled for UEWR upgrade in 2016). The secondary mission of BMEWS supports the Space Situational Awareness (SSA) mission by providing near-earth satellite surveillance, tracking and identification as required by the Joint Space Operations Center, Alternate Space Operations Center, and the National Air and Space Intelligence Center. The BMEWS consists of: Thule Air Base, Greenland; Clear Air Force Station, AK; and Royal Air Force (RAF) Fylingdales, UK. Additionally there is a fourth site for testing (System Program Agency) located in the Centralized Integration Support Facility (CISF) at Peterson AFB, CO.

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	0	0	0	0	0	0	0	0	-
	Total Obligation Authority	78.648	69.500	70.798	0.000	70.798	45.309	47.793	48.033	48.871
AFNG	Quantity	0	0	0	0	0	0	0	0	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AFR	Quantity	0	0	0	0	0	0	0	0	-

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications		<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0305111F, 0305909F, 0305912F, 1203699F	<b>Other Related Program Elements:</b> 0305111F, 0305114F, 0305909F

**Line Item MDAP/MAIS Code:** None

		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
<b>Secondary Distribution</b>	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Total:</b>	<b>Quantity</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>78.648</b>	<b>69.500</b>	<b>70.798</b>	<b>0.000</b>	<b>70.798</b>	<b>45.309</b>	<b>47.793</b>	<b>48.033</b>	<b>48.871</b>

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 838010 / Comm Elect Mods  
**Equip / BSA 8: Modifications**

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0305111F, 0305909F, 0305912F, 1203699F **Other Related Program Elements:** 0305111F, 0305114F, 0305909F

**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	Weather Service				- / 6.756	- / 5.850	- / 6.974	- / 9.155	- / 0.000	- / 9.155
P-5	Weather Service		B		- / -	- / 2.640	- / 1.672	- / 1.000	- / -	- / 1.000
P-40a	Air Traffic Control, Approach, and Landing System (ATCALs)				- / 37.903	- / 3.980	- / 12.323	- / 2.646	- / 0.000	- / 2.646
P-3a	1 / NAS Gen4 MOD (Capability Improvement)				- / -	- / -	- / 1.519	- / 12.718	- / 0.000	- / 12.718
P-40a	Ballistic Missile Early Warning System (BMEWS)				- / 41.181	- / 59.108	- / 29.610	- / 0.000	- / 0.000	- / 0.000
P-40a	Ballistic Missile Early Warning System (BMEWS)				- / -	- / 6.850	- / -	- / -	- / -	- / -
P-40a	Submarine-Launched Ballistic Missile (SLBM) Radar Warning System				- / 0.000	- / 0.000	- / 16.999	- / 0.000	- / 0.000	- / 0.000
P-40a	Shared Early Warning (SEW)				- / 0.000	- / 0.220	- / 0.403	- / 0.392	- / 0.000	- / 0.392
P-40a	Ballistic Missile Early Warning System (BMEWS)				- / -	- / -	- / -	- / 20.079	- / -	- / 20.079
P-40a	Ballistic Missile Early Warning System (BMEWS)				- / 0.000	- / 0.000	- / 0.000	- / 5.600	- / 0.000	- / 5.600
P-40a	Submarine-Launched Ballistic Missile (SLBM) Radar Warning System				- / 0.000	- / 0.000	- / 0.000	- / 9.904	- / 0.000	- / 9.904
P-40a	Submarine-Launched Ballistic Missile (SLBM) Radar Warning System				- / -	- / -	- / -	- / 9.304	- / -	- / 9.304
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 85.840</b>	<b>- / 78.650</b>	<b>- / 69.500</b>	<b>- / 70.798</b>	<b>- / 0.000</b>	<b>- / 70.798</b>

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	Weather Service				- / -	- / -	- / -	- / -	- / -	- / -
P-5	Weather Service		B		- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Air Traffic Control, Approach, and Landing System (ATCALs)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / NAS Gen4 MOD (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Ballistic Missile Early Warning System (BMEWS)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Ballistic Missile Early Warning System (BMEWS)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Submarine-Launched Ballistic Missile (SLBM) Radar Warning System				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Shared Early Warning (SEW)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Ballistic Missile Early Warning System (BMEWS)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Ballistic Missile Early Warning System (BMEWS)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Submarine-Launched Ballistic Missile (SLBM) Radar Warning System				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Submarine-Launched Ballistic Missile (SLBM) Radar Warning System				- / -	- / -	- / -	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 79.313</b>	<b>- / 61.384</b>	<b>- / 60.666</b>	<b>- / 57.347</b>	<b>- / -</b>	<b>- / 563.498</b>

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

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



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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications		<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0305111F, 0305909F, 0305912F, 1203699F	<b>Other Related Program Elements:</b> 0305111F, 0305114F, 0305909F
<b>Line Item MDAP/MAIS Code:</b> None		
<b>Justification:</b> Where applicable, justification for individual modifications is provided in the P-3A exhibits and also below.		
<p>PAVE PAWS Block 00 Update This effort was formerly called BPP Block 00 Update and was formerly funded in PE 0305912F. Starting FY18 it will be funded in PE 1203912F. FY18 will fund ongoing program management administrative costs supporting PAVE PAWS modification efforts and will fund Capital Equipment Replacement of unsupportable mission and support equipment and initial spares to include, but not limited to, sub-array power supplies (SAPS) and associated components. Due to the limited spares demand rates, and indefinite system lifespan, Life of Type buys may be required to support this weapon system.</p> <p>PAVE PAWS Block 01 Update This effort was formally called BPP Block 01 Update and was formerly funded in PE 0305912F. Starting FY18 it will be funded in PE 1203912F. FY18 will fund ongoing program management administrative costs supporting PAVE PAWS modification efforts and will fund Capital Equipment Replacement of unsupportable mission and support equipment and initial spares to include, but not limited to, array group drivers (AGDs) and associated components. Due to the limited spares demand rates, and indefinite system lifespan, Life of Type buys may be required to support this weapon system.</p> <p>BMEWS Block 00 Update This effort was formally called BPP Block 00 Update and was formerly funded in PE 0305909F. Starting FY18 it will be funded in PE 1203909F. FY18 will fund ongoing program management administrative costs supporting BMEWS modification efforts and will fund Capital Equipment Replacement of unsupportable mission and support equipment and initial spares to include, but not limited to, sub-array power supplies (SAPS) and associated components. Due to the limited spares demand rates, and indefinite system lifespan, Life of Type buys may be required to support this weapon system.</p> <p>BMEWS Block 01 Update This effort was formally called BPP Block 01 Update and was formerly funded in PE 0305909F. Starting FY18 it will be funded in PE 1203909F. FY18 will fund ongoing program management administrative costs supporting BMEWS modification efforts and will fund Capital Equipment Replacement of unsupportable mission and support equipment and initial spares to include, but not limited to, array group drivers (AGDs) and associated components. Due to the limited spares demand rates, and indefinite system lifespan, Life of Type buys may be required to support this weapon system.</p> <p><b>Efforts with funding starting in FY 2019 through FY 2022 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:</b></p> <ul style="list-style-type: none"> <li>(a) FY 2019 Cost Delta: 79.313 million</li> <li>(b) FY 2020 Cost Delta: 61.384 million</li> <li>(c) FY 2021 Cost Delta: 60.666 million</li> <li>(d) FY 2022 Cost Delta: 57.347 million</li> <li>(e) FY Total Cost Delta: 563.498 million</li> </ul>		

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**Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Aggregated Modification Items Title:</b> Weather Service
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Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
08-001 / AN/FMQ-7 Solar Optical Observing Network (SOON)			-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-	-	-	1.000		-	-		-	-		-	
09-001 / AN/UMQ-13 MARK IV-B			-	-	6.756	-	-	0.000	-	-	1.000	-	-	1.500	-	-	-	-	1.500	
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	1.000		-	1.500		-	-		-	
14-001 / Next Generation Radar (NEXRAD) WSR-88D IT Refresh			-	-	-	-	-	2.750	-	-	3.508	-	-	4.732	-	-	-	-	4.732	
<i>Secondary Distribution</i>																				
AF				-	-		-	2.750		-	3.508		-	4.732		-	-		-	
14-007 / Radio Solar Telescope Network Service Life Extension Program (RSTN SLEP)			-	-	-	-	-	3.100	-	-	-	-	-	0.800	-	-	-	-	0.800	
<i>Secondary Distribution</i>																				
AF				-	-		-	3.100		-	-		-	0.800		-	-		0.800	
16-001 / Joint Environmental Toolkit (JET) Refresh			-	-	-	-	-	-	-	-	1.466	-	-	2.123	-	-	-	-	2.123	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	1.466		-	2.123		-	-		2.123	
<b>Total</b>			-	-	<b>6.756</b>	-	-	<b>5.850</b>	-	-	<b>6.974</b>	-	-	<b>9.155</b>	-	-	<b>0.000</b>	-	<b>9.155</b>	

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
08-001 / AN/FMQ-7 Solar Optical Observing Network (SOON)	ANFMQ7	Capability Improvement
09-001 / AN/UMQ-13 MARK IV-B	ANUMQ13	Capability Improvement
14-001 / Next Generation Radar (NEXRAD) WSR-88D IT Refresh	WSR-88D	Capability Improvement
14-007 / Radio Solar Telescope Network Service Life Extension Program (RSTN SLEP)	ANFRR95, AF24U1	Capability Improvement
16-001 / Joint Environmental Toolkit (JET) Refresh	JET	Capability Improvement

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Item Number / Title [DODIC]:</b> - / Weather Service

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	2.640	1.672	1.000	-	1.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	2.640	1.672	1.000	-	1.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>2.640</b>	<b>1.672</b>	<b>1.000</b>	-	<b>1.000</b>

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

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

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Hardware - Weather Service Cost</b>																		
Non Recurring Cost																		
Weather Data Analysis	-	-	-	-	-	2.457	-	-	1.486	-	-	0.810	-	-	-	-	-	0.810
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	2.457	-	-	1.486	-	-	0.810	-	-	-	-	-	0.810
<i>Subtotal: Hardware - Weather Service Cost</i>	-	-	-	-	-	2.457	-	-	1.486	-	-	0.810	-	-	-	-	-	0.810
<b>Support - Weather Service Cost</b>																		
PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENT SERVICES	-	-	-	-	-	0.183	-	-	0.186	-	-	0.190	-	-	-	-	-	0.190
<i>Subtotal: Support - Weather Service Cost</i>	-	-	-	-	-	0.183	-	-	0.186	-	-	0.190	-	-	-	-	-	0.190
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	2.640	-	-	1.672	-	-	1.000	-	-	-	-	-	1.000

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF	-	-	-	-	-
Total Obligation Authority	2.640	1.672	1.000	-	1.000
<b>Total: Secondary Distribution</b>	<b>2.640</b>	<b>1.672</b>	<b>1.000</b>	-	<b>1.000</b>

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force</b>														<b>Date: May 2017</b>					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8						<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods						<b>Aggregated Modification Items Title:</b> Air Traffic Control, Approach, and Landing System (ATCALs)							

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AN/GRN-29 Instrument Landing System / ATCALs AN/GRN-29 Instrument Landing System (PE 0305114F)			-		37.903	-		3.219	-		7.121	-		1.006	-		-	-		1.006
<i>Secondary Distribution</i>																				
AF				-	-	-		3.219		-	7.121		-	1.006		-	-		-	1.006
AFNG				-	-	-		0.000		-	-		-	-		-	-		-	-
AFR				-	-	-		0.000		-	-		-	-		-	-		-	-
ATCALs / Deployable TACAN Retrofit/ Refurbishment			-		-	-		-		-	3.800		-	-		-	-		-	-
<i>Secondary Distribution</i>																				
AF				-	-	-		-		-	3.800		-	-		-	-		-	-
P-3A Low Cost Mods / ATCALs Low Cost Mods (PE 0305114F)			-		-	-		0.761		-	1.402		-	1.640		-	-		-	1.640
<i>Secondary Distribution</i>																				
AF				-	-	-		0.761		-	1.402		-	1.640		-	-		-	1.640
<b>Total</b>			-		37.903	-		3.980		-	12.323		-	2.646		-	0.000		-	2.646

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
AN/GRN-29 Instrument Landing System / ATCALs AN/GRN-29 Instrument Landing System (PE 0305114F)	GRN-29	Capability Improvement
ATCALs / Deployable TACAN Retrofit/ Refurbishment	TRN-48	Reliability & Maintainability
P-3A Low Cost Mods / ATCALs Low Cost Mods (PE 0305114F)	ATCALs	Reliability & Maintainability

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Modification Number / Title:</b> 1 / NAS Gen4 MOD

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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)	-	-	1.519	12.718	0.000	12.718	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	1.519	12.718	0.000	12.718	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>1.519</b>	<b>12.718</b>	<b>0.000</b>	<b>12.718</b>	-	-	-	-	-	-

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

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

**Description:**

The Gen 4 equipment is being procured as a centrally managed commodity procurement as part of the National Airspace System (NAS) system. NAS system configuration is centrally maintained and certified by the Federal Aviation Administration which has system engineering responsibility for the NAS. The National Airspace System (NAS) Gen 4 Modification continues mitigation of diminishing manufacturing source issues for the NAS program which has transitioned to the Operational Support Phase. Over its 15 year production/implementation phase, NAS was fielded in multiple hardware configurations and software builds. Current NAS processors and associated network equipment have gone end of life. The NAS Gen4 modification establishes standard hardware and software configurations and ensures continued system supportability and availability. Configuration consolidation also reduces multiple, simultaneous efforts associated with system software development and test while reducing cost outlays.

**JUSTIFICATION:**

FY18 funds will procure 4 upgrade kits (4 AD/0 ANG/0 AFR).

**Milestone/Development Status**

Modification kits have already been kit proofed by FAA and are available off FAA 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	-	1.519	12.718	0.000	12.718	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.000	0.000	-	0.000	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.000	0.000	-	0.000	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	<b>1.519</b>	<b>12.718</b>	<b>0.000</b>	<b>12.718</b>	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>											<b>Date: May 2017</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8				<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods					<b>Modification Number / Title:</b> 1 / NAS Gen4 MOD			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>					
<b>Models of Systems Affected:</b> NASMod-1			<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b>					
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)
<b>Procurement</b>												
<i>Modification Item 1 of 1: DAAS G4 Retrofit</i>												
B Kits												
Recurring												
DAAS G4 Retrofit:EQUIPMENT Group B (Active)	- / -	- / -	4 / 1.319 (1)	4 / 12.398	- / -	4 / 12.398	- / -	- / -	- / -	- / -	- / -	- / -
DAAS G4 Retrofit:EQUIPMENT Group B (Guard)	- / -	- / -	- / 0.000	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
DAAS G4 Retrofit:EQUIPMENT Group B (Reserve)	- / -	- / -	- / 0.000	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / 1.319	- / 12.398	- / -	- / 12.398	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: DAAS G4 Retrofit</i>	- / -	- / -	- / 1.319	- / 12.398	- / -	- / 12.398	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 1.319	- / 12.398	- / -	- / 12.398	- / -	- / -	- / -	- / -	- / -	- / -
<b>Support (All Modification Items)</b>												
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	- / -	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
<b>Installation</b>												
<i>Modification Item 1 of 1: DAAS G4 Retrofit</i>	- / -	- / -	4 / 0.200	4 / 0.320	- / -	4 / 0.320	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	- / -	- / -	4 / 0.200	4 / 0.320	- / -	4 / 0.320	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	-	-	1.519	12.718	0.000	12.718	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8	<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods	<b>Modification Number / Title:</b> 1 / NAS Gen4 MOD

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**Modification Item 1 of 1:** DAAS G4 Retrofit

**Manufacturer Information**

Manufacturer Name: Raytheon	Manufacturer Location: Marlborough, MA
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 5

Dates	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contract Dates		Feb 2017	Feb 2018				
Delivery Dates		Jul 2017	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	- / -	- / -	4 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	4 / 0.320	- / -	4 / 0.320	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	4 / 0.200	4 / 0.320	- / -	4 / 0.320	- / -	- / -	- / -	- / -	- / -	- / -

**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	-	-	-	-	-	-	-	4	-	-	-	4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	0	10

**Footnotes:**  
<sup>(1)</sup> Unit cost in FY17 is lower than unit cost in FY18 through FY19 as FY17 kits are for 4 Enhanced Local Integrated Tower Equipment (ELITE) mod kits which is a smaller system than the Gen 4 system kits being procured in FY18/19 for the much larger radar approach control facilities.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8						<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods						<b>Aggregated Modification Items Title:</b> Ballistic Missile Early Warning System (BMEWS)							

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
COBRA DANE Radar Mod / COBRA DANE Radar Mod			-	-	-	-	-	0.150	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	0.150		-	-		-	-		-	-		-	-
Mod HEMP / Mod HEMP			-	-	-	-	-	49.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	49.000		-	-		-	-		-	-		-	-
P-3A BMEWS DP/SP Suite Replacement / BMEWS DP/SP Suite Replacement			-	-	37.616	-	-	9.858	-	-	29.610	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	9.858		-	29.610		-	-		-	-		-	-
P-3A BMEWS Modification / BMEWS Modification			-	-	3.565	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.100		-	-		-	-		-	-		-	-
<b>Total</b>			-	-	<b>41.181</b>	-	-	<b>59.108</b>	-	-	<b>29.610</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
COBRA DANE Radar Mod / COBRA DANE Radar Mod	NA	Reliability & Maintainability
Mod HEMP / Mod HEMP	NA	Reliability & Maintainability
P-3A BMEWS DP/SP Suite Replacement / BMEWS DP/SP Suite Replacement	Raytheon	Reliability & Maintainability
P-3A BMEWS Modification / BMEWS Modification	NA	Reliability & Maintainability



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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>														<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8						<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods						<b>Aggregated Items Title:</b> Ballistic Missile Early Warning System (BMEWS)							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Radar</b>																				
Radar Reliability	A		-	-	-	-	-	6.850	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	6.850	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Radar</b>			-	-	-	-	-	<b>6.850</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	-	-	-	<b>6.850</b>	-	-	-	-	-	-	-	-	-	-	-	-

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

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force</b>														<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8							<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods							<b>Aggregated Modification Items Title:</b> Submarine-Launched Ballistic Missile (SLBM) Radar Warning System					

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
P-3A PARCS Modifications / P-3A PARCS Modification (formerly PARCS PARSS)			-	-	-	-	-	-	-	-	0.750	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-	0.750			-	-	-	-	-	-	
P-3A PAVE PAWS Modifications / P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End)			-	-	-	-	-	-	-	-	1.553	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-	1.553			-	-	-	-	-	-	
PARCS Block 00 Update / PARCS Block 00 Update			-	-	-	-	-	-	-	-	4.240	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-	4.240			-	-	-	-	-	-	
PAVE PAWS Block 00 Update / BPP Block 00 SAPS ES			-	-	-	-	-	-	-	-	10.456	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-	10.456			-	-	-	-	-	-	
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>16.999</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
P-3A PARCS Modifications / P-3A PARCS Modification (formerly PARCS PARSS)	Exelis	Reliability & Maintainability
P-3A PAVE PAWS Modifications / P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End)	NA	Reliability & Maintainability
PARCS Block 00 Update / PARCS Block 00 Update	Exelis	Reliability & Maintainability
PAVE PAWS Block 00 Update / BPP Block 00 SAPS ES	NA	Reliability & Maintainability

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**Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 03 / 8 **P-1 Line Item Number / Title:** 838010 / Comm Elect Mods **Aggregated Modification Items Title:** Shared Early Warning (SEW)

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
SEWS1 / Shared Early Warning System (SEWS) Low Cost Mods			-	-	-	-	-	0.220	-	-	0.403	-	-	0.392	-	-	0.000	-	-	0.392
<i>Secondary Distribution</i>																				
AF				-	-		-	0.220		-	0.403		-	0.392		-	0.000		-	0.392
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>0.220</b>	-	-	<b>0.403</b>	-	-	<b>0.392</b>	-	-	<b>0.000</b>	-	-	<b>0.392</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
SEWS1 / Shared Early Warning System (SEWS) Low Cost Mods	SEWS	Reliability & Maintainability

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8						<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods						<b>Aggregated Items Title:</b> Ballistic Missile Early Warning System (BMEWS)							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>BMEWS BLOCK 00</b>																				
BMEWS BLOCK 00	A		-	-	-	-	-	-	-	-	-	-	-	12.879	-	-	-	-	-	12.879
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	12.879	-	-	-	-	-	12.879
<b>Subtotal: BMEWS BLOCK 00</b>			-	-	-	-	-	-	-	-	-	-	-	<b>12.879</b>	-	-	-	-	-	<b>12.879</b>
<b>BMEWS BLOCK 01</b>																				
BMEWS BLOCK 01	A		-	-	-	-	-	-	-	-	-	-	-	7.200	-	-	-	-	-	7.200
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	7.200	-	-	-	-	-	7.200
<b>Subtotal: BMEWS BLOCK 01</b>			-	-	-	-	-	-	-	-	-	-	-	<b>7.200</b>	-	-	-	-	-	<b>7.200</b>
<b>Total</b>			-	-	-	-	-	-	-	-	-	-	-	<b>20.079</b>	-	-	-	-	-	<b>20.079</b>

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8					<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods										<b>Aggregated Modification Items Title:</b> Ballistic Missile Early Warning System (BMEWS)				

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
BMEWS / BMEWS DP SP			-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		-	0.500		-	-		-	0.500
BMEWS2 / BMEWS Block 02			-	-	-	-	-	-	-	-	-	-	-	5.100	-	-	-	-	-	5.100
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		-	5.100		-	-		-	5.100
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>5.600</b>	-	-	<b>0.000</b>	-	-	<b>5.600</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
BMEWS / BMEWS DP SP	NA	Reliability & Maintainability
BMEWS2 / BMEWS Block 02	NA	Reliability & Maintainability

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force</b>														<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8						<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods						<b>Aggregated Modification Items Title:</b> Submarine-Launched Ballistic Missile (SLBM) Radar Warning System							

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
PARCSB0 / PARCS Block 00			-	-	-	-	-	-	-	-	-	-	-	9.104	-	-	-	-	-	9.104
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		-	9.104		-	-		-	9.104
PARCSB1 / PARCS Block 01			-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		-	0.500		-	-		-	0.500
PPB02 / Pave Paws Block 02			-	-	-	-	-	-	-	-	-	-	-	0.300	-	-	-	-	-	0.300
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		-	0.300		-	-		-	0.300
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>9.904</b>	-	-	<b>0.000</b>	-	-	<b>9.904</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
PARCSB0 / PARCS Block 00	NA	Reliability & Maintainability
PARCSB1 / PARCS Block 01	NA	Reliability & Maintainability
PPB02 / Pave Paws Block 02	NA	Reliability & Maintainability

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 03 / 8							<b>P-1 Line Item Number / Title:</b> 838010 / Comm Elect Mods							<b>Aggregated Items Title:</b> Submarine-Launched Ballistic Missile (SLBM) Radar Warning System					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>PAVE PAWS BLOCK 00</b>																				
PAVE PAWS BLOCK 00	A		-	-	-	-	-	-	-	-	-	-	-	4.504	-	-	-	-	-	4.504
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	4.504	-	-	-	-	-	4.504
<b>Subtotal: PAVE PAWS BLOCK 00</b>			-	-	-	-	-	-	-	-	-	-	-	<b>4.504</b>	-	-	-	-	-	<b>4.504</b>
<b>PAVE PAWS BLOCK 01</b>																				
PAVE PAWS BLOCK 01	A		-	-	-	-	-	-	-	-	-	-	-	4.800	-	-	-	-	-	4.800
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	4.800	-	-	-	-	-	4.800
<b>Subtotal: PAVE PAWS BLOCK 01</b>			-	-	-	-	-	-	-	-	-	-	-	<b>4.800</b>	-	-	-	-	-	<b>4.800</b>
<b>Total</b>			-	-	-	-	-	-	-	-	-	-	-	<b>9.304</b>	-	-	-	-	-	<b>9.304</b>

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

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip	<b>P-1 Line Item Number / Title:</b> 842140 / Night Vision Goggles
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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>	-	5.950	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	5.950
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	5.950	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	5.950
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	<b>5.950</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>5.950</b>

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

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

**Description:**

FY16 funding includes \$3.580M appropriated for Overseas Contingency Operations (Guardian Angel Fusion Goggle-Enhanced).

Modern warfare resulted in an increase in airborne combat under the cover of darkness. Night missions include ground operations, preparation of the aircraft for take-off and landings in complete darkness, lights-off air refueling, and visual identification of enemy targets hidden under the night sky. Consequently, ground personnel and aircrew require the capability to see in very low visibility conditions at night and high ambient light conditions such as full moon or heavily lighted residential areas. The use of Night Vision Goggles (NVG) is critical for combat rescue, special operations, and homeland security missions.

A lack of night vision capability would significantly decrease combat effectiveness in night operations, risk flight safety, and increase the probability of fratricide. Aircraft such as HH-60 helicopters, HC-130s, F-16s, and special mission C-130s primarily operate in low altitude environments during covert night operations. Hence, NVGs are vital to the success of these missions, providing a dramatic increase in safety, situational awareness, and survivability during the execution of near daytime tactics, including visual formation criteria. Furthermore, the proliferation of NVG-equipped adversaries underscores the urgent need to supply ground and air forces with night vision equipment.

Funding for this exhibit contained in Program Elements (PEs) 0702833F, 0207227F, and 0207588F.

Ground crew Goggles:

AN/PVS-14 Ground crew Goggle: This monocular night vision device is a hand-held, head-mounted, helmet-mounted, or weapon-mounted night vision system, which enables walking, weapon firing, short-range surveillance, map reading, vehicle maintenance, and first-aid administration during moonlight and starlight conditions. The AN/PVS-14 supports a vast spectrum of ground and air operations to include aircraft maintenance, civil engineering, emergency response, security, and other missions.

AN/PVS-15 Ground crew Goggle: This binocular NVG is a helmet-mounted or hand-held night vision system, which is primarily used by Special Forces during night drop operations. The AN/PVS-15 can be used for all nighttime ground operations. An added benefit of this particular binocular goggle is the back-up capability in the event one of the two tubes fails.

Guardian Angel Fusion Goggle - Enhanced (FGE): The FGE is a helmet mounted dual waveband goggle which will increase identification and discrimination of combatants in most battlefield conditions and light levels through the use of image intensification fused with thermal imagery. Continued procurement of systems are required for combat rescue until the next generation of multi-spectral NVGs are developed

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip	<b>P-1 Line Item Number / Title:</b> 842140 / Night Vision Goggles
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

and available for ground crew operators. Due to rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements.

Aircrew Goggles:

AN/AVS-9 (F4949G-TG) Aircrew Goggle: This night vision goggle provides aircraft and ground personnel with the capability to see the horizon, terrain features and enemy ground fire, thereby reducing the potential for air-to-ground fratricide and mid-air collisions during night operations. The AN/AVS-9 (F4949-TG) is a light-weight, helmet-mounted goggle equipped with pinnacle tube technology that mitigates effects of sudden bright light exposure.

Test Sets:

ANV-20/20 Test Set, Infinity Focus: The ANV-20/20 is a portable instrument, which allows quick and accurate evaluation and adjustment of all goggle parameters. All NVGs require operational checkout.

ANV-126A Test Set, Infrared Viewer: The ANV-126A is a commercial upgrade to the ANV-126, which is suitable for field operational checks and depot level NVG maintenance. This test set provides accurate checks for NVG resolution, gain, power drain, binocular goggle collimation, image quality, and image distortion. The ANV-126A uses state of the art technology and provides enhanced capabilities to the user.

ANV-126A-UGF Test Set, Time Compliance Technical Order (TCTO) Kit: The ANV-126A-UGF is a commercial TCTO kit that converts the ANV-126 to the ANV-126A Test Set.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), capabilities under this line item are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and military support to civil authorities. Projected allocations for reserve component requirements are subject to total force demand priorities.

Note: All funding and tasks from FY17-FY21 have been moved to Project 842990, Items Less than \$5 Million.

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	195	0	0	0	0	0	0	0	0
	Total Obligation Authority	4.995	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AFNG	Quantity	184	0	0	0	0	0	0	0	0
	Total Obligation Authority	0.716	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AFR	Quantity	63	0	0	0	0	0	0	0	0
	Total Obligation Authority	0.239	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	<b>442</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total Obligation Authority</b>	<b>5.950</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

**Justification:**

All funding and tasks from FY17-FY21 have been moved to Project 842990, Items Less than \$5 Million

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip	<b>P-1 Line Item Number / Title:</b> 842990 / Items Less Than \$5 Million
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207227F, 0604706F
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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> )	-	73.030	71.016	52.964	8.469	61.433	52.276	51.016	47.998	180.953	-	537.722
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	73.030	71.016	52.964	8.469	61.433	52.276	51.016	47.998	180.953	-	537.722
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>73.030</b>	<b>71.016</b>	<b>52.964</b>	<b>8.469</b>	<b>61.433</b>	<b>52.276</b>	<b>51.016</b>	<b>47.998</b>	<b>180.953</b>	-	<b>537.722</b>

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

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

**Description:**

This program provides a wide variety of base support and safety of flight items for warfighters with worldwide application.

Procures safety and rescue equipment for increased protection of aircrew personnel operating manned, non-space aircraft to optimize weapon system effectiveness and capability throughout the full spectrum of military operations. In general, the purpose of the PE is to expand the combat capabilities of a weapon system an airman supports while balancing functionality, comfort, and safety. Representative items include flight helmets, oxygen breathing equipment, flame resistant/retardant and blast/ballistic protective gear, laser eye protection, personnel locator beacons, nuclear flash blindness devices, personnel parachutes, ejection seats/equipment, survival radios, associated test sets, life rafts, life preservers, anti-exposure coveralls, aircrew flight ensembles, and other air/ground crew equipment.

**Guardian Angel Family of Systems:**

Guardian Angel is an Air Force non-aircraft weapon system within the overarching Battlefield Airman Modernization Program. Guardian Angel is a family of systems based on human and equipment capabilities formulated to execute Air Force Combat Search and Rescue and personnel recovery across a full spectrum of military operations. Guardian Angel family of systems is employed by three distinct Air Force Specialties: Pararescuemen (PJ), Survival, Evasion, Resistance, and Escape (SERE) and Combat Rescue Officer (CRO). Representative items include but are not limited to parachute equipment, technical recovery equipment, information management systems, enhanced night vision systems, rescue watercraft and a Live Virtual Constructive (LVC) Training Simulator (simulator, maintenance & mobile shelter costs) to supplement, augment, and optimize current training events, independent of aircraft availability to align with strategic plans of the Next Generation LVC for training within the DoD. The enhanced night vision systems will include continued Procurement of Night Vision solutions that improve personnel recovery night vision systems with wider field of view, lower SWAP, and/or enhanced vision in at least one spectral band other than Near-IR. Procurement is required to meet mission needs until the next generation of multi-spectral NVGs are developed and available for ground crew operators. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. This includes applicable training, spares, and repairs. Starting FY17 and thereafter, all funding and tasks for BPAC 842140 Night Vision Goggles have been moved to BPAC 842990 Items Less than \$5 Million. 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. Due to rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements.

Special Tactics/Combat Control Battlefield Airmen program funds Air Force standardized equipment within the overarching Battlefield Airmen Modernization program for Special Tactics combat controllers, pararescue personnel, combat weather operators and tactical air control parties to perform their Air Force Special Operations Command Mission. Funding for this effort is in program element 0408011F. Representative items include but are not limited to training and simulators, assault zone, airfield marking tools, approach landing capability, weather data collection and analysis, personnel and technical recovery

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip		<b>P-1 Line Item Number / Title:</b> 842990 / Items Less Than \$5 Million
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207227F, 0604706F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>equipment, visual augmentation, unmanned capabilities, aerial insertion, ground transportation, and maritime. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. This includes applicable training, spares, and repairs to manage, execute, and deliver Special Tactics weapon system capability. 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 program element may include necessary civilian pay expenses required to manage, execute, and deliver Special Tactics weapon system capability. Due to the rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements.</p> <p>Modern warfare resulted in an increase in airborne combat under the cover of darkness. Night missions include ground operations, preparation of the aircraft for take-off and landings in complete darkness, lights-off air refueling, and visual identification of enemy targets hidden under the night sky. Consequently, ground personnel and aircrew require the capability to see in very low visibility conditions at night and high ambient light conditions such as full moon or heavily lighted residential areas. The use of Night Vision Goggles (NVG) is critical for combat rescue, special operations, and homeland security missions.</p> <p>A lack of night vision capability would significantly decrease combat effectiveness in night operations, risk flight safety, and increase the probability of fratricide. Aircraft such as HH-60 helicopters, HC-130s, F-16s, and special mission C-130s primarily operate in low altitude environments during covert night operations. Hence, NVGs are vital to the success of these missions, providing a dramatic increase in safety, situational awareness, and survivability during the execution of near daytime tactics, including visual formation criteria. Furthermore, the proliferation of NVG-equipped adversaries underscores the urgent need to supply ground and air forces with night vision equipment.</p> <p>Ground crew Goggles:</p> <p>AN/PVS-14 Ground crew Goggle: This monocular night vision device is a hand-held, head-mounted, helmet-mounted, or weapon-mounted night vision system, which enables walking, weapon firing, short-range surveillance, map reading, vehicle maintenance, and first-aid administration during moonlight and starlight conditions. The AN/PVS-14 supports a vast spectrum of ground and air operations to include aircraft maintenance, civil engineering, emergency response, security, and other missions.</p> <p>AN/PVS-15 Ground crew Goggle: This binocular NVG is a helmet-mounted or hand-held night vision system, which is primarily used by Special Forces during night drop operations. The AN/PVS-15 can be used for all nighttime ground operations. An added benefit of this particular binocular goggle is the back-up capability in the event one of the two tubes fails.</p> <p>AN/PVS-31A Ground Crew Goggle: This binocular night vision device (BNVD) is a helmet-mounted or handheld, battery operated night vision goggle that allows for observation and target identification under adverse conditions including light rain, light snow, and low light. The system amplifies ambient light so that the viewed scene becomes clearly visible to the operator. The BNVD is a follow-on to our legacy, battle proven AN/PVS-15, but offers more features for increased survivability. Rotating binocular design allows low profile against helmet when in stowed position and ability to use as a single monocular.</p> <p>Aircrew Goggles:</p> <p>AN/AVS-9 (F4949G-TG) Aircrew Goggle: This night vision goggle provides aircraft and ground personnel with the capability to see the horizon, terrain features and enemy ground fire, thereby reducing the potential for air-to-ground fratricide and mid-air collisions during night operations. The AN/AVS-9 (F4949-TG) is a light-weight, helmet-mounted goggle equipped with pinnacle tube technology that mitigates effects of sudden bright light exposure.</p> <p>Test Sets:</p> <p>ANV-20/20 Test Set, Infinity Focus: The ANV-20/20 is a portable instrument, which allows quick and accurate evaluation and adjustment of all goggle parameters. All NVGs require operational checkout.</p> <p>ANV-126A Test Set, Infrared Viewer: The ANV-126A is a commercial upgrade to the ANV-126, which is suitable for field operational checks and depot level NVG maintenance. This test set provides accurate checks for NVG resolution, gain, power drain, binocular goggle collimation, image quality, and image distortion. The ANV-126A uses state of the art technology and provides enhanced capabilities to the user.</p> <p>ANV-126A-UGF Test Set, Time Compliance Technical Order (TCTO) Kit: The ANV-126A-UGF is a commercial TCTO kit that converts the ANV-126 to the ANV-126A Test Set.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip		<b>P-1 Line Item Number / Title:</b> 842990 / Items Less Than \$5 Million
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207227F, 0604706F
<b>Line Item MDAP/MAIS Code:</b> N/A		

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), capabilities under this line item are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and military support to civil authorities. Projected allocations for reserve component requirements are subject to total force demand priorities.

Funding for this exhibit contained in PEs 0207227F, 0207433F, 0408011F, 0503113F and 0702833F.

Projected allocations for component requirements are subject to total force demands and priorities.

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	17,126	2,984	3,201	870	4,071	0	0	0	0
	Total Obligation Authority	73.030	70.389	52.521	8.469	60.990	0.000	0.000	0.000	0.000
AFNG	Quantity	0	71	31	0	31	0	0	0	0
	Total Obligation Authority	0.000	0.499	0.328	0.000	0.328	0.000	0.000	0.000	0.000
AFR	Quantity	0	21	11	0	11	0	0	0	0
	Total Obligation Authority	0.000	0.128	0.114	0.000	0.114	0.000	0.000	0.000	0.000
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>17,126</b>	<b>3,076</b>	<b>3,243</b>	<b>870</b>	<b>4,113</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total Obligation Authority</b>	<b>73.030</b>	<b>71.016</b>	<b>52.964</b>	<b>8.469</b>	<b>61.433</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip	<b>P-1 Line Item Number / Title:</b> 842990 / Items Less Than \$5 Million
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207227F, 0604706F
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**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-5	Guardian Angel	P-5a	A		- / -	- / 11.924	- / 28.317	- / 25.635	- / -	- / 25.635
P-40a	Items Less Than \$5 Million				- / -	- / 61.106	- / 42.699	- / 27.329	- / 8.469	- / 35.798
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 73.030</b>	<b>- / 71.016</b>	<b>- / 52.964</b>	<b>- / 8.469</b>	<b>- / 61.433</b>

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

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

**Justification:**  
 This program, Items Less Than \$5 Million P-40A Item Next Generation Ejection Seat, is a new start.

FY18 procurement dollars procure Aircrew Flight Equipment, Life Support Systems, Ground Crew Equipment, and Guardian Angel equipment. Funds may be used to address associated emerging requirements and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

The FY2016 OCO funding total of \$3.407M in PE 53133F supports the restock/resupply of mission equipment currently being used in Horn of Africa (HOA) and continued integration of GAWS systems into HC-130 and HH-60 Communications/Rescue systems.

The FY2018 OCO funding total of \$8.769M supports the procurement of 870 AN/PVS 31A Night Vision Goggles for AMC

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Items Less Than \$5 Million	<b>Item Number / Title [DODIC]:</b> - / Guardian Angel

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	11.924	28.317	25.635	-	25.635
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	11.924	28.317	25.635	-	25.635
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>11.924</b>	<b>28.317</b>	<b>25.635</b>	-	<b>25.635</b>

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

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

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Guardian Angel Cost																		
Recurring Cost																		
Aerial Insertion Equipment	-	-	-	0.004	1,343	5.775	0.007	2,258	15.129	0.045	23	1.028	-	-	-	0.045	23	1.028
Technical Recovery Equipment	-	-	-	0.006	197	1.221	0.088	39	3.416	0.079	75	5.888	-	-	-	0.079	75	5.888
Medical Equipment	-	-	-	-	-	-	0.025	1	0.025	0.025	1	0.025	-	-	-	0.025	1	0.025
Maritime Rescue Equipment	-	-	-	0.021	16	0.339	0.025	1	0.025	0.025	1	0.025	-	-	-	0.025	1	0.025
Information Management Equipment	-	-	-	0.004	553	2.267	0.025	1	0.025	0.015	372	5.580	-	-	-	0.015	372	5.580
SERE	-	-	-	-	-	-	0.021	37	0.777	0.025	1	0.025	-	-	-	0.025	1	0.025
Guardian Angel Enhanced Night Vision Systems <sup>(f)</sup>	-	-	-	-	-	-	0.034	192	6.451	0.035	304	10.549	-	-	-	0.035	304	10.549
PMA Contractor Services	-	-	-	-	-	2.322	-	-	2.469	-	-	2.515	-	-	-	-	-	2.515
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	11.924	-	-	28.317	-	-	25.635	-	-	-	-	-	25.635
<i>Subtotal: Hardware - Guardian Angel Cost</i>	-	-	-	-	-	11.924	-	-	28.317	-	-	25.635	-	-	-	-	-	25.635
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	11.924	-	-	28.317	-	-	25.635	-	-	-	-	-	25.635

Remarks:

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**Exhibit P-5, Cost Analysis: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Items Less Than \$5 Million	<b>Item Number / Title [DODIC]:</b> - / Guardian Angel
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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This program element may include necessary civilian pay expenses required to manage, execute, and deliver Guardian Angel weapon system capability.

Secondary Distribution	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
AF					
Quantity	-	-	-	-	-
Total Obligation Authority	11.924	28.317	25.635	-	25.635
<b>Total:</b>					
<b>Quantity</b>	-	-	-	-	-
<b>Total Obligation Authority</b>	<b>11.924</b>	<b>28.317</b>	<b>25.635</b>	<b>-</b>	<b>25.635</b>

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



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**Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Items Less Than \$5 Million	<b>Item Number / Title [DODIC]:</b> - / Guardian Angel
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Guardian Angel Enhanced Night Vision Systems		2017	TBD / TBD	MIPR	TBD	Mar 2017	Jul 2017	192	0.034	Y		
Guardian Angel Enhanced Night Vision Systems		2018	TBD / TBD	MIPR	TBD	Mar 2018	Jul 2018	304	0.035	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 2						P-1 Line Item Number / Title: 842990 / Items Less Than \$5 Million						Aggregated Items Title: Items Less Than \$5 Million								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Safety, Rescue Equipment</b>																				
PMA (Life Support) Other Government Cost	A		-	-	-	-	-	0.994	-	-	0.831	-	-	0.855	-	-	-	-	-	0.855
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.994	-	-	0.831	-	-	0.855	-	-	-	-	-	0.855
Life Support Equipment	A		-	-	-	-	-	0.500	-	-	0.599	-	-	2.875	-	-	-	-	-	2.875
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.500	-	-	0.599	-	-	2.875	-	-	-	-	-	2.875
Aircrew Flight Equipment	A		-	-	-	-	-	4.900	-	-	2.304	-	-	0.731	-	-	-	-	-	0.731
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	4.900	-	-	2.304	-	-	0.731	-	-	-	-	-	0.731
Aircrew Laser Eye Protection (ALEP) Block 2: Day Variant	A		-	-	-	0.002	1,695	3.800	0.002	1,929	3.840	0.002	1,809	3.750	-	-	-	0.002	1,809	3.750
<i>Secondary Distribution</i>																				
AF			-	-	-	1,695	3,800	-	1,929	3,840	-	1,809	3,750	-	-	-	-	-	1,809	3,750
Aircrew Laser Eye Protection (ALEP) Block 2: Night Variant	A		-	-	-	0.003	815	2.521	0.003	887	2.560	0.003	1,302	3.879	-	-	-	0.003	1,302	3.879
<i>Secondary Distribution</i>																				
AF			-	-	-	815	2,521	-	887	2,560	-	1,302	3,879	-	-	-	-	-	1,302	3,879
Personnel Locator Beacon	A		-	-	-	0.003	14,616	44.984	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	14,616	44,984	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Aircrew Ensemble	A		-	-	-	-	-	-	-	-	-	-	-	8.252	-	-	-	-	-	8.252
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	8.252	-	-	-	-	-	8.252
Ejection Seat Safety/ Sustainability Improvement Program for Qualification of B-2 Seat Mod	A		-	-	-	-	-	-	0.245	42	10.300	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	42	10,300	-	-	-	-	-	-	-	-	-	-
Next Generation Ejection Seat	A		-	-	-	-	-	-	-	-	0.000	-	-	0.992	-	-	-	-	-	0.992
<i>Secondary Distribution</i>																				

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 04 / 2 **P-1 Line Item Number / Title:** 842990 / Items Less Than \$5 Million **Aggregated Items Title:** Items Less Than \$5 Million

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AF				-	-		-		-	0.000		-	0.992		-	-		-	0.992	
Air Force Reserve Equipment	A		-	-	-	-	-	3.407		-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	3.407		-	0.000		-	-	-	-	-	-	-	
Special Tactics/ Combat Control Equipment	A		-	-	-	-	-	-	-	4.285	-	-	4.584	-	-	-	-	-	4.584	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		4.285		-	4.584		-	-		-	4.584	
Groundcrew Goggle (AN/PVS-14)	A		-	-	-	-	-	-	0.003	163	0.489	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		98	0.294		-	-		-	-		-	
AFNG				-	-		-	-		49	0.147		-	-		-	-		-	
AFR				-	-		-	-		16	0.048		-	-		-	-		-	
Groundcrew Goggle (AN/PVS-15)	A		-	-	-	-	-	-	-	-	-	0.011	82	0.904	-	-	-	0.011	82	0.904
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		55	0.606		-	-		55	0.606
AFNG				-	-		-	-		-	-		21	0.232		-	-		21	0.232
AFR				-	-		-	-		-	-		6	0.066		-	-		6	0.066
Fusion Goggle Enhanced	A			-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aircrew Goggle (AN/AVS-9 (F4949G-TG))	A		-	-	-	-	-	-	-	-	-	0.010	50	0.483	-	-	-	0.010	50	0.483
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		35	0.338		-	-		35	0.338
AFNG				-	-		-	-		-	-		10	0.097		-	-		10	0.097
AFR				-	-		-	-		-	-		5	0.048		-	-		5	0.048
Test Set, TCTO Kit (ANV-126A-UGF)	A		-	-	-	-	-	-	0.016	55	0.880	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		28	0.448		-	-		-	-		-	-
AFNG				-	-		-	-		22	0.352		-	-		-	-		-	-
AFR				-	-		-	-		5	0.080		-	-		-	-		-	-
Groundcrew Goggle (AN/PVS 31A)	A		-	-	-	-	-	-	-	-	16.600	-	-	-	0.010	870	8.469	0.010	870	8.469
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	16.600		-	-		870	8.469		870	8.469

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 2	<b>P-1 Line Item Number / Title:</b> 842990 / Items Less Than \$5 Million	<b>Aggregated Items Title:</b> Items Less Than \$5 Million
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
PMA (NVG) Other Government Cost	A		-	-	-	-	-	-	-	-	0.011	-	-	0.024	-	-	-	-	-	0.024
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	0.011	-	-	0.024	-	-	-	-	-	0.024
<b>Subtotal: Safety, Rescue Equipment</b>			-	-	-	-	-	-	-	-	<b>42.699</b>	-	-	<b>27.329</b>	-	-	<b>8.469</b>	-	-	<b>35.798</b>
<b>Total</b>			-	-	-	-	-	-	-	-	<b>42.699</b>	-	-	<b>27.329</b>	-	-	<b>8.469</b>	-	-	<b>35.798</b>

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

**Remarks:**

FY18 Costs increased by \$0.181M due to inflation adjustment - \$0.090M to Life Support Equipment, \$0.091M to Aircrew Flight Equipment.  
 FY18 Costs increased by \$0.043M due to inflation adjustment - Special Tactics/Combat Control Equipment  
 FY18 Costs increased by \$0.0131M due to inflation adjustment - NVGs

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq	<b>P-1 Line Item Number / Title:</b> 843050 / Mechanized Material Handling Equip
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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> )	-	7.249	14.688	10.381	0.000	10.381	53.175	11.991	12.217	8.762	-	118.463
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	7.249	14.688	10.381	0.000	10.381	53.175	11.991	12.217	8.762	-	118.463
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>7.249</b>	<b>14.688</b>	<b>10.381</b>	<b>0.000</b>	<b>10.381</b>	<b>53.175</b>	<b>11.991</b>	<b>12.217</b>	<b>8.762</b>	-	<b>118.463</b>

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

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

**Description:**

The Mechanized Materials Handling Equipment line provides funding for Mechanized Materials Handling Systems (MMHS) and Storage Aids Systems (SAS).

MMHS and SAS equipment provide bases worldwide with automated and static equipment to store, receive, and ship materiel. MMHS and SAS equipment involves the design and acquisition of mechanized and non-mechanized materials handling systems such as receiving, storage, and distribution systems; high density storage systems; and a variety of SAS equipment including racks, bin shelving, modular cabinets, and mezzanines.

Transportation systems generally include equipment such as heavy duty freight handling 463L conveyors, pallet buildup/breakdown lift conveyor stations, cargo staging racks, and overhead bridge cranes for air freight terminal systems; roller conveyors and overhead cranes for aerial delivery facility systems; inbound and outbound baggage conveyors and passenger boarding bridges for air passenger terminals.

Other types of MMHS include narrow aisle vehicle replacements and external aircraft fuel tank storage systems.

Adequately equipped facilities are essential to the storage and handling of weapon system components, and the processing of personnel, freight, and baggage to reduce pipeline time and to provide enhanced Air Force capability to respond to crises and threats whenever they occur in the world.

Program elements associated with this P-1 Line are 0202834F, 0702834F, 0802834F, 0402834F, 0502834F, 0502844F, 0207597F, and 0401319F.

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	18	30	15	0	15	22	25	22	25
Total Obligation Authority	6.624	12.343	7.606	0.000	7.606	51.775	11.991	12.217	8.762

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq	<b>P-1 Line Item Number / Title:</b> 843050 / Mechanized Material Handling Equip
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AFNG	Quantity	2	4	10	0	10	7	0	0	0
	Total Obligation Authority	0.625	1.975	2.775	0.000	2.775	1.400	0.000	0.000	0.000
AFR	Quantity	0	1	0	0	0	0	0	0	0
	Total Obligation Authority	0.000	0.370	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Total:</b>	<b>Quantity</b>	<b>20</b>	<b>35</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>29</b>	<b>25</b>	<b>22</b>	<b>25</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>7.249</b>	<b>14.688</b>	<b>10.381</b>	<b>0.000</b>	<b>10.381</b>	<b>53.175</b>	<b>11.991</b>	<b>12.217</b>	<b>8.762</b>

**Justification:**  
 FY18 procurement funds for MMHS/SAS equipment increases the productivity of Air Force operations, enhances management control of assets, reduces multiple handling of logistics materiel by consolidating assets, increases flexibility at a minimum investment cost, enhances safety, reduces losses due to damage of materiel in transport, and reduces congestion and delays in the receiving, storage and issue operations in supply, base level aircraft maintenance, and transportation facilities. Also provides critical support for mission readiness supporting the F-35 beddown as well as F-16 realignment resulting from the F-35 beddown.

FY18 MMHE is to be purchased in the following quantities: 1 crane system, 3 conveyor systems, 6 high density storage systems, 2 receiving, storage and distribution systems, and 13 storage aid systems.

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845010 / Base Procured Equipment
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code: N/A**

Resource Summary	Prior Years	FY 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> )	-	13.595	6.852	15.038	7.500	22.538	13.460	13.725	13.987	10.701	-	94.858
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	13.595	6.852	15.038	7.500	22.538	13.460	13.725	13.987	10.701	-	94.858
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>13.595</b>	<b>6.852</b>	<b>15.038</b>	<b>7.500</b>	<b>22.538</b>	<b>13.460</b>	<b>13.725</b>	<b>13.987</b>	<b>10.701</b>	-	<b>94.858</b>

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

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

**Description:**

Base Procured Equipment:

Organizations throughout the Air Force acquire authorized investment equipment from the General Services Administration, Defense Logistics Agency, and commercial sources when these items exceed \$250,000 in cost or are unavailable through Air Force central procurement. Examples of equipment in this P-1 line typically include equipment and/or specialized tools for road and ground maintenance; vehicle maintenance; vehicle corrosion control; civil engineering maintenance; electrical and carpentry shops; specialized laboratories; kitchen and dining facilities; printing plants; microfilm, graphics support facilities; training ranges; uninterruptible power supply systems, physiological trainers to include, but are not limited to Barney Chairs, Altitude Chambers, Spatial Disorientation Trainers, Hypoxia Familiarization Trainers and Part Task Trainers, Reduced Oxygen Breathing Devices, Terrain Boards, Parachuting Trainers, Aircrew Exercise Equipment.

PEs associated with this P-1 Line are: 0202834F, 0205219F, 0208534F, 0305534F, 0402834F, 0502834F, 0502844F, 0702834F, 0802834F, 0804721F, 0804731F, 0804743F, 0804752F, 0808534F, 0901212F

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	0	0	0	1	1	0	0	0
	Total Obligation Authority	13.595	6.852	14.087	7.500	21.587	4.240	4.321	4.400
AFNG	Quantity	0	0	0	0	0	0	0	0
	Total Obligation Authority	0.000	0.000	0.847	0.000	0.847	0.860	0.875	0.890
AFR	Quantity	0	0	0	0	0	0	0	0
	Total Obligation Authority	0.000	0.000	0.104	0.000	0.104	0.105	0.108	0.111
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total Obligation Authority</b>	<b>13.595</b>	<b>6.852</b>	<b>15.038</b>	<b>7.500</b>	<b>22.538</b>	<b>5.205</b>	<b>5.304</b>	<b>5.401</b>

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment

**P-1 Line Item Number / Title:**  
845010 / Base Procured Equipment

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

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

Exhibits Schedule					Prior Years	FY 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	Base Procured Equipment				- / -	- / 13.595	- / 6.852	- / 15.038	- / 7.500	- / 22.538
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 13.595</b>	<b>- / 6.852</b>	<b>- / 15.038</b>	<b>- / 7.500</b>	<b>- / 22.538</b>

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

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

**Justification:**

Base Procured Equipment:

Power Conditioning & Continuation Interfacing Equipment (PCCIE):

The PCCIE Program Office procures, replaces and modernizes uninterruptible power supply (UPS) systems to meet Air Force requirements. Many of these systems have exceeded the life expectancy of 12-15 years. PCCIE program is structured into small projects (from 3 - 125 kilovolt amps (kva)) and large projects (greater than 125 kva) and includes associated ancillary equipment.

PE 84731F - funds procure:

a). Keesler Trainer/Simulator for Expeditionary Combat Support Radio Course: TS-4528A/U Multi-Channel DOCCT/S System (2x 3U), Two Channel, Lab/Class Local RF; Includes redundant power supply, training & IW Phase II channel control capability. This item simulates a UHF satellite terminal control station as well as the satellite system itself. It enables two-satellite ground terminals to establish a connection and pass data and voice communications to each other. It is used to certify objective completion in the Expeditionary Combat Support Radio course.

b). Goodfellow AFB Fire Training Burn Trainers: New Fire Cause and Fire Inspection Trainers, Structural Burn Training Fire Box and SBCA Compressor and Air Pack Fill Station Replacement.

c). Parachute System for Pararescue and Combat Rescue Officer training (Lackland AFB): Purchase of RamAir (RA-1) Parachute System

PE 84752F - funds procure Laboratory equipment for AF Institute of Technology.

Power Conditioning & Continuation Interfacing Equipment (PCCIE):

The new systems collectively satisfy critical user requirements and will:

1. Reduce overall footprint and weight by 50-60%.
2. Reduce operating and sustainment costs by 30%-50%.
3. Reduce acquisition costs as it applies to installation since many newer systems consist of more internal pre-wiring.
4. Lower parts count dramatically improves reliability by reducing the potential points of failure within the system.
5. Produce greater energy savings and higher operating efficiency in all configurations, typically between 92% and 93.5%; with all types of loads.

The Uninterruptible Power Supply (UPS) systems protect sensitive electronic equipment/systems such as command and control centers, intelligence missions, radars, etc.



**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 04 / 5 **P-1 Line Item Number / Title:** 845010 / Base Procured Equipment **Aggregated Items Title:** Base Procured Equipment

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
BASE PROCURED EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	7.500	1	7.500	7.500	1	7.500
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	-		1	7.500		1	7.500
AF CIVIL ENGR SPT AGENCY	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AF SPACE CMD	A		-	-	-	-	-	1.590	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.590	-	-	-	-	-	-	-	-	-	-	-	-
AIR COMBAT CMD	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR EDUCATION & TRAINING CMD	A		-	-	-	-	-	7.555	-	-	2.788	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	7.555	-	-	2.788	-	-	-	-	-	-	-	-	-
PACIFIC AIR FORCES	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
US AIR FORCES EUROPE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
US AIR FORCE ACADEMY	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR FORCE MATERIEL CMD	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCCIE	A		-	-	-	-	-	4.450	-	-	3.998	-	-	3.803	-	-	-	-	-	3.803
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	4.450	-	-	3.998	-	-	3.803	-	-	-	-	-	3.803
1) PCCIE PMA	A		-	-	-	-	-	-	-	-	0.066	-	-	10.284	-	-	-	-	-	10.284
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	0.066	-	-	10.284	-	-	-	-	-	10.284
PCCIE ANG/RES	A		-	-	-	-	-	-	-	-	-	-	-	0.951	-	-	-	-	-	0.951
<i>Secondary Distribution</i>																				
AFNG			-	-	-	-	-	-	-	-	-	-	-	0.847	-	-	-	-	-	0.847
AFR			-	-	-	-	-	-	-	-	-	-	-	0.104	-	-	-	-	-	0.104
AIR FORCE GLOBAL STRIKE CMD	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR FORCE WIDE/ PCCIE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>13.595</b>	-	-	<b>6.852</b>	-	-	<b>15.038</b>	-	-	<b>7.500</b>	-	-	<b>22.538</b>
<b>Total</b>			-	-	-	-	-	<b>13.595</b>	-	-	<b>6.852</b>	-	-	<b>15.038</b>	-	-	<b>7.500</b>	-	-	<b>22.538</b>

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 5	<b>P-1 Line Item Number / Title:</b> 845010 / Base Procured Equipment	<b>Aggregated Items Title:</b> Base Procured Equipment

**Remarks:**  
1) PCCIE PMA - FY18 funding will support Program Office Management efforts including computer support, travel, A&AS and cost estimating/analysis services

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845100 / ENGINEERING AND EOD EQUIPMENT
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0205671F
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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> )	-	56.806	274.900	26.287	80.427	106.714	37.968	40.561	40.748	41.485	-	599.182
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	56.806	274.900	26.287	80.427	106.714	37.968	40.561	40.748	41.485	-	599.182
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>56.806</b>	<b>274.900</b>	<b>26.287</b>	<b>80.427</b>	<b>106.714</b>	<b>37.968</b>	<b>40.561</b>	<b>40.748</b>	<b>41.485</b>	-	<b>599.182</b>

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

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

**Description:**

FY18 OCO Funding \$40.427 JCREW (Joint Counter Radio-Controlled Improvised Explosive Devices Electronic Warfare): 02025671F Program Element Code associated with P-1 line. Funding supports partial JCREW system procurement to replace partially legacy CREW systems that cannot defeat advanced Radio-Controlled Improvised Explosive Device (RCIED) threats.

FY18 OCO funding \$40.0M Recovery of Airbases Denied by Ordnance (RADBO): 0208028F Program Element Code associated with P-1 line. The funding supports the procurement of specialized tools, equipment, and vehicles required to provide combatant commanders the capability to rapidly assess and report damage, assess and remove/neutralize unexploded ordnance (UXO) on damaged airfields and repair damage to support sortie generation.

FY18 Baseline Funding \$8.048M EOD (Explosive Ordnance Disposal Forces): 0204424F Program Elements Codes (PECs) associated with P-1 Line. The funding supports Explosive Ordnance Disposal (EOD) teams equipment requirements in countering explosive threats in garrison and deployed locations.

FY18 Baseline Funding \$1.395M for Airfield Damage Repair (ADR) program: PEC 0208028F Airfield Damage Repair (ADR) associated with P-1 Line. The funding supports the major components of ADR and ensure the Air Force has the capability to repair airfields in minimal timing to support sortie generations. The major repair components of Air Field Damage Repair training/Small Size, Medium Sized (R-1), and Very Large Size (R-3) Kits. Current efforts under ADR are intended to bring the repair time in to operational acceptable limits in support of COCOM post attack Air Tasking Orders.

FY18 Baseline Funding of \$4.200M for outdated Reverse Osmosis Water Purification Unit (ROWPU) systems: PEC 0207430F associated with P-1 Line. The funding procures full EALs kit for 819, and provides lifecycle replacement on 3 LAMS-V shelters. Current 600 GPM ROWPU units are outdated and no longer supported by the manufacturer and no longer fielded by AF, Army, Navy, and Marines. Replacement parts are now custom manufacture increasing lead time and cost.

FY18 Baseline Funding of \$12.396M for Expedient Small Asset Protection (ESAP) shelters: PEC 0208028F associated with P-1 Line. Funding provided by an OSD Resource Management Decision (RMD) to procure ESAP Shelters and ESAP shelter support.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment

**P-1 Line Item Number / Title:**  
845100 / ENGINEERING AND EOD EQUIPMENT

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0205671F

**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	ENGINEERING AND EOD EQUIPMENT				- / -	- / 56.806	- / 274.900	- / 26.287	- / 80.427	- / 106.714
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 56.806</b>	<b>- / 274.900</b>	<b>- / 26.287</b>	<b>- / 80.427</b>	<b>- / 106.714</b>

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

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

**Justification:**

FY18 OCO Funding \$40.427M in PEC 0205671F will procure JCREW (Joint Counter Radio-Controlled Improvised Explosive Device Electronic Warfare) systems in the following quantities: \$37.300M procures 128 JCREW vehicle mounted systems of partially replace legacy CREW systems; \$3.127M procures 313 vehicle integration kits for JCREW.

FY18 OCO funding \$40.0M in PEC 0208028F will procure 14 RADBO systems at bases in Gulf Coast Countries in the Southwest Asia (SWA) AOR, RADBO systems integrates directed energy and robotic arm for UXO protection during rapid airfield damage recovery/repair.

FY18 Baseline funding of \$8.042M in PEC 020442F will procure Explosive Ordnance Devices (EOD) support in the following quantities: \$1.226M procures Counter Radio-Controlled Improvised Explosive Device Electronic Warfare (CREW) Universal Test Sets (UTS) to ensure operability of critical CREW systems to support Counter IED operations; \$1.500M continues to procure Total Containment Vessel (TCV) which is a Self-contained bomb containment system capable of repeatedly containing the overpressure and fragmentation (within the vessel) associated with the detonation of high explosives (HE) and or improvised explosive devices (IED) that has been certified by the Department of Defense explosives Safety Board (DDESB) and supports installation emergency response to all types of explosive incidents; \$0.352K procures (light tactical trailers) to support rapid mobility and a drive-on/drive off deployed capability; \$4.970M in PEC 020442F procures Remote Firing Device: High performance remote initiation system designed to command detonate explosives and associated EOD equipment using UHF radio signals and time delay. The two principle items of the system are the Transmitter and Receiver.

FY18 Baseline ADR funding of \$1.395M in PEC 0208028F Air Field Damage repair kits. The support equipment items include ADR Tool Trailers (hand tools and small equipment items required for crater repair), Small Repair Kits (hand tools and saws for expeditious and semi-permanent repairs), Inclement Weather Kits (tools and materials to place rapid setting materials in cold, hot, and wet weather), water skids (provides supplemental weather for rapid setting materials), and light carts (support night operations). The Basic/Small kit is used to provide basic repair equipment/materials in order to repair approximately 18 small (10 ft diameter) craters or three, 25 diameter craters in 6.5 hours. Additional airfield damage can be repaired based on the availability of time and materials. Basic/Small kits will also be used at training locations.

FY18 Baseline funding in PEC 0207430F: \$2.9M provides for outdated ROWPU systems, \$0.556K procures full EALs kit for 819, and \$0.744M provides lifecycle replacement on 3 LAMS-V shelters. Current 600 GPM ROWPU units are outdated and no longer supported by the manufacturer and no longer fielded by AF, Army, Navy, and Marines. Replacement parts are now custom manufacture increasing lead time and cost.

FY18 Baseline funding of \$12.396M in PEC 0208028F will procure Expeditionary Small Asset Protection (ESAP) shelters in the following quantities: 8 ESAP Type I Fighter Aircraft Shelters for \$7.2M; 6 ESAP Type II Equipment shelters for \$2.490M and \$2.706M for Shelters support. ESAP shelters are critical for protection of airfield assets (fighter aircraft and ground support equipment) that are in immediate danger of an attack. These ESAPs will be strategically postured within the PACAF theater.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 04 / 5 **P-1 Line Item Number / Title:** 845100 / ENGINEERING AND EOD EQUIPMENT **Aggregated Items Title:** ENGINEERING AND EOD EQUIPMENT

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>Uncategorized</b>																				
CVRJ CREW Refurbishment	A		-	-	-	-	-	-	-	221.000	-	-	-	-	-	-	-	-	-	
JCREW Dismounted Systems	A		-	-	-	98,458.00	110	10.830	74,979.59	49	3.674	-	-	-	-	-	-	-	-	
JCREW Mounted Systems	A		-	-	-	140,548.10	200	28.110	221,220.18	218	48.226	-	-	-	291,406.25	128	37.300	291,406.25	128	37.300
JCREW Fixed Site Systems	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JCREW Vehicle Integration Kits	A		-	-	-	-	-	-	-	-	-	-	-	9,990.42	313	3.127	9,990.42	313	3.127	
CREW Universal Test Sets	A		-	-	-	-	-	-	-	-	47,153.85	26	1.226	-	-	-	47,153.85	26	1.226	
FRS (EOD portable X-RAY)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Containment Vessel	A		-	-	-	-	-	-	-	-	300,000.00	5	1.500	-	-	-	300,000.00	5	1.500	
Base Support Emergency Response Transport	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fuze Disassembly System, Explosive Ordnance Disposal	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Light Tactical Trailers	A		-	-	-	17,000.00	30	0.510	-	-	-	35,200.00	10	0.352	-	-	-	35,200.00	10	0.352
EOD-M Program - Ordnance Locator	A		-	-	-	26,921.00	14	0.377	-	-	-	-	-	-	-	-	-	-	-	
EOD-M IED Search Kits	A		-	-	-	6,000.00	100	0.600	-	-	-	-	-	-	-	-	-	-	-	
EOD-M Diarming Toolsets	A		-	-	-	10,000.00	24	0.240	-	-	-	-	-	-	-	-	-	-	-	
EOD-M PowerHawk Robot Attachment	A		-	-	-	39,670.00	30	1.190	-	-	-	-	-	-	-	-	-	-	-	
EOD-M Mini Remote Firing Device	A		-	-	-	-	-	0.000	-	-	-	35,000.00	142	4.970	-	-	-	35,000.00	142	4.970
RECOVERY REPAIR KIT (Training/Small Sized)	A		-	-	-	435,000.00	3	1.305	400,000.00	5	2.000	465,000.00	3	1.395	-	-	-	465,000.00	3	1.395
RECOVERY REPAIR KIT - R1 (Medium Sized Kit)	A		-	-	-	1,262K	1	1.262	-	-	-	-	-	-	-	-	-	-	-	
RECOVERY REPAIR KIT - R2 (Large Size Kit)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 04 / 5 **P-1 Line Item Number / Title:** 845100 / ENGINEERING AND EOD EQUIPMENT **Aggregated Items Title:** ENGINEERING AND EOD EQUIPMENT

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
RECOVERY REPAIR KIT - R3 (Very Large Size Kit)	A		-	-	-	2,845K	1	2.845	-	-	-	-	-	-	-	-	-	-	-	-	
RADBO Equipment, Integration, & Spares Kits	A		-	-	-	-	-	-	-	-	-	-	-	-	2,857K	14	40.000	2,857K	14	40.000	
Support Agadez Infrastructure - IT Service Mgmt Services	A		-	-	-	9,537K	1	9.537	-	-	-	248,000.00	1	0.248	-	-	-	248,000.00	1	0.248	
ROWPU, 1500gph	A		-	-	-	-	-	-	-	-	-	290,000.00	10	2.900	-	-	-	290,000.00	10	2.900	
LAMS-V	A		-	-	-	-	-	-	-	-	-	248,000.00	3	0.744	-	-	-	248,000.00	3	0.744	
EALS Kit	A		-	-	-	-	-	-	-	-	-	556,000.00	1	0.556	-	-	-	556,000.00	1	0.556	
ESAP Type I Shelters	A		-	-	-	-	-	-	-	-	-	900,000.00	8	7.200	-	-	-	900,000.00	8	7.200	
ESAP Type II Shelters	A		-	-	-	-	-	-	-	-	-	415,000.00	6	2.490	-	-	-	415,000.00	6	2.490	
ESAP Shelter Support	A		-	-	-	-	-	-	-	-	-	2,706K	1	2.706	-	-	-	2,706K	1	2.706	
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>56.806</b>	-	-	-	<b>274.900</b>	-	-	<b>26.287</b>	-	-	<b>80.427</b>	-	-	<b>106.714</b>
<b>Total</b>			-	-	-	-	-	<b>56.806</b>	-	-	-	<b>274.900</b>	-	-	<b>26.287</b>	-	-	<b>80.427</b>	-	-	<b>106.714</b>

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

**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845420 / Mobility Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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> )	-	66.986	43.128	8.470	0.000	8.470	9.617	9.789	9.965	10.145	-	158.100
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	66.986	43.128	8.470	0.000	8.470	9.617	9.789	9.965	10.145	-	158.100
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>66.986</b>	<b>43.128</b>	<b>8.470</b>	<b>0.000</b>	<b>8.470</b>	<b>9.617</b>	<b>9.789</b>	<b>9.965</b>	<b>10.145</b>	-	<b>158.100</b>

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

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

**Description:**

This program funds procurement of Basic Expeditionary Airfield Resources (BEAR). It includes equipment to support the bed down of deployed forces (personnel, aircraft and support equipment) at austere and semi-austere locations. BEAR assets are a critical Agile Combat Support enabler for the Expeditionary Air Force. BEAR is composed of five types of air base capability packages: housekeeping, feeding, hygiene, power generation and flight line. Flight line packages consist of airfield lighting, aircraft hangars, fire stations, and numerous additional systems to support airfield operations. The program provides funding to procure new and replacement equipment items, and multi-media packages required to support BEAR training facilities at Silver Flag Sites, Regional Training Sites, Technical Schools, Technical Certification Centers, Services Combat Center Training, 635MMG, and Eagle Flag. Costs include inventory reconstitution, spares and consumables, repairs, and procurement of new equipment for upgrades or full UTC's replacement. BEAR demonstrated its critical role in support of Operations Enduring Freedom and other operations worldwide.

The AF continues to modernize major BEAR components to replace obsolete and inefficient items (e.g., Power Generation, Hygiene, Refrigeration,EALS, MAAS, Shelters, and Feeding):

**Force Module Water System:** Water System takes non-potable water and converts it into potable water. The system is modular and scalable in design and consists of Source Run, Water Production, Reverse Osmosis Water Purification Unit (ROWPU), Initial, Follow-on, and Industrial Operations, Flight line Extension, freeze protection, grey water recovery, pumping, piping, and storage equipment; applicable fittings; and other components such as fluid control valves.

**Power System:** Consists of prime and secondary power equipment which provides the capability to generate and distribute power to billeting, feeding, flight line and industrial operations at forward deployed sites. The primary power source for BEAR bed down locations is the BEAR Power Unit (BPU). The BPU is an 800 kilowatt (kW) Tier II compliant diesel generator. The power from the BPU is distributed through buried high voltage cabling and stepped down to facility power through the Secondary Distribution Center (SDC). The SDC is a 150 kilovolt-ampere (KVA) transformer capable of supporting twelve (12) billeting shelters via the Primary Distribution Panels (PDP).

**Expeditionary Airfield Lighting System (EALS)(Legacy):** Light Emitting Diode (LED) and incandescent runway lighting system designed to be rapidly installed at contingency airfields and at other locations that need temporary airfield lighting. The lighting kit for runways includes runway edge and threshold lights, precision approach path indicator (PAPI), and strobe approach lights, distance to go marker lamps, taxi way lamps and battery-operated obstruction lights. The EALS also includes the generators, cables, control cables, transformers and regulators. The entire system is packaged on six (6) mobile trailers. System will be replaced with a Next Generation System over the FYDP.

**Mobile Aircraft Arresting System:** This air transportable barrier arresting Bak-12 mounted on a mobile trailer to accommodate the recovery of fighter aircraft returning to battle damaged airfield.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment		<b>P-1 Line Item Number / Title:</b> 845420 / Mobility Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>Hygiene: Hygiene includes Shower, Shave and Latrine, WH-400 water heaters for initial Hygiene fielding and Self Help Laundry system which provides personal hygiene facilities in support of BEAR bases.</p> <p>Hygiene Shelters: Hygiene Shelters are designed to be used as changing rooms connecting to the BEAR Hygiene System. The shelters support personnel utilizing BEAR Hygiene Systems.</p> <p>Refrigeration: Refrigeration units designed for the carriage of deep frozen, frozen, chilled and general cargo by road, rail, air, and sea (above or below deck), suitable for austere environmental conditions. It is used to support the BEAR services, feeding and mortuary operations.</p> <p>Shelters: Shelters vary in sizes and are needed for billeting, kitchen, hygiene, and aircraft and equipment maintenance. Includes lighting, electrical equipment, environmental control units, remote area lighting, Shelter Flies, Shelter Flooring/matting for various shelter sizes, Shelter liners.</p> <p>Shelter Flooring: Shelter flooring varies in size for small and large shelters (ACH, LAMS, Mortuary).</p> <p>Feeding: BEAR Feeding includes kitchen and all applicable equipment. BEAR Feeding system provides the capability to prepare, and then serve, 500 meals over a two hour serving period, twice per day (24 hour period). The Feeding system is worldwide deployable and supports numerous basing options. This system supports initial mission requirements and follow-on high mobility feeding requirements for rapidly deployable mobility packages and other contingencies in all theaters of operation.</p> <p>10K Fuel Bladder: Collapsible, coated fabric fuel bladders are often used as an auxiliary fuel source for MEP generators. This is especially true for high fuel-consumption prime power generators.</p> <p>Heating, Ventilating, and Air Conditioning (HVAC): provide thermal comfort and acceptable indoor air quality.</p> <p>Environmental Control Unit (ECU): Heat Pump to provide cooling, heating via reversing valve (heat pump) and supplemental heat via resistance heat strips.</p> <p>Training/Multi-Media Training - Provides BEAR and items for all training sites and funds for all required BEAR multi-media training requirements.</p> <p>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$34.982 million is required to address emergency warfighting readiness requirements. Power generation is a must to sustain operations at austere locations. BEAR Power Unit is a modernization effort to replace legacy power units that have out lived life expectancy and no longer have repair capability. Purchasing BEAR PU requirements early allows assembly line to continue without interruption for a smooth requirement fulfillment.</p> <p>Program element associated with this P-1 Line is: 041135F.</p>		
<p><b>Justification:</b> FY18 procurement dollars in the amount of \$8.470M procures 4 Legacy Airfield Lighting System (EALS), 32 Next Generation Small Shelter System, 1 Mobile Aircraft Arresting System and PMA in Support of Installation and unit mission requirements for Air Force personnel.</p>		



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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845990 / Items Less Than \$5 Million
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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> )	-	34.707	28.427	28.768	110.405	139.173	56.265	56.716	45.087	45.905	-	406.280
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	34.707	28.427	28.768	110.405	139.173	56.265	56.716	45.087	45.905	-	406.280
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>34.707</b>	<b>28.427</b>	<b>28.768</b>	<b>110.405</b>	<b>139.173</b>	<b>56.265</b>	<b>56.716</b>	<b>45.087</b>	<b>45.905</b>	-	<b>406.280</b>

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

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

**Description:**

This program provides a wide variety of base support items with worldwide application, to include but not limited to: aircraft arresting systems; IPE Equipment; Fuels Support Equipment; Generator Power plants, Deployable Debrief Facilities (DDF) and related cargo pallet systems. This equipment provides prime support for all base missions. Lack of funding for these equipment items limits maintenance capabilities, testing functions, anti-terrorism/security missions, communications capabilities, flight operations, and the ability of Air Force units to meet deployment requirements.

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

Program elements associated with this P-1 Line are: 0202834F, 0207142F, 0208031F, 0208534F, 0401221F, 0402834F, 0502834F, 0502844F, 0702834F, 0802834F.

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	5	4	6	0	6	0	0	0
	Total Obligation Authority	34.707	26.538	27.812	110.405	138.217	0.000	0.000	0.000
AFNG	Quantity	0	4	2	0	2	0	0	0
	Total Obligation Authority	0.000	1.511	0.766	0.000	0.766	0.000	0.000	0.000
AFR	Quantity	0	1	1	0	1	0	0	0
	Total Obligation Authority	0.000	0.378	0.190	0.000	0.190	0.000	0.000	0.000
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>5</b>	<b>9</b>	<b>9</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total Obligation Authority</b>	<b>34.707</b>	<b>28.427</b>	<b>28.768</b>	<b>110.405</b>	<b>139.173</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	<b>P-1 Line Item Number / Title:</b> 845990 / Items Less Than \$5 Million
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

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	Items Less Than \$5 Million				- / -	- / 34.707	- / 28.427	- / 28.768	- / 110.405	- / 139.173
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 34.707</b>	<b>- / 28.427</b>	<b>- / 28.768</b>	<b>- / 110.405</b>	<b>- / 139.173</b>

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

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

**Justification:**

FY18 procurement dollars in the amount of \$28.768M procures 1 Aircraft Arresting Barrier, 5 Industrial Plant Equipment, 1 Generator Plant, 1 Automated High Vacuum Gauge System, Fuels Support Equipment (FSE) and Fuels Operational Readiness Capability Equipment (FORCE), 1 Prefab Gym Facility and PMA in support of installation and unit mission requirements for Air Force personnel.

FY18 OCO dollars in the amount of \$110.405M will procure equipment in support of the European Contingency Air Operations Set (ECAOS) Deployable Air Base Systems (DABS) - Facilities, Equipment, and Vehicles (FEV).

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force																	Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity:					P-1 Line Item Number / Title:										Aggregated Items Title:					
3080F / 04 / 5					845990 / Items Less Than \$5 Million										Items Less Than \$5 Million					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Support Equipment and Vehicles (SEV)</b>																				
FSE / FORCE <sup>(1)</sup>	A		-	-	-	-	-	23.612	-	-	23.886	-	-	24.036	-	-	-	-	-	24.036
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	23.612	-	-	23.886	-	-	24.036	-	-	-	-	-	24.036
PMA OTHER GOVERNMENT COSTS (FORCE)	A		-	-	-	-	-	0.015	-	-	0.019	-	-	0.020	-	-	-	-	-	0.020
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.015	-	-	0.019	-	-	0.020	-	-	-	-	-	0.020
FSC 1710 AIRCRAFT ARRESTING SYSTEM	A		-	-	-	-	-	-	0.268	2	0.535	0.301	1	0.301	-	-	-	0.301	1	0.301
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	2	0.535	-	1	0.301	-	-	-	-	1	0.301
GENERATOR POWER PLANT	A		-	-	-	-	-	-	-	-	-	0.190	1	0.190	-	-	-	0.190	1	0.190
<i>Secondary Distribution</i>																				
AFR			-	-	-	-	-	-	-	-	-	-	1	0.190	-	-	-	-	1	0.190
PMA - OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.061	-	-	0.035	-	-	0.010	-	-	0.000	-	-	0.010
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.061	-	-	0.035	-	-	0.010	-	-	0.000	-	-	0.010
PMA CONTRACTOR SERVICES	A		-	-	-	-	-	0.254	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.254	-	-	-	-	-	-	-	-	-	-	-	-
ECAOS/DABS-FEV <sup>(2)</sup>	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	110.405	-	-	110.405
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	-	-	-	110.405	-	-	110.405
<b>Subtotal: Support Equipment and Vehicles (SEV)</b>			-	-	-	-	-	<b>23.942</b>	-	-	<b>24.475</b>	-	-	<b>24.557</b>	-	-	<b>110.405</b>	-	-	<b>134.962</b>
<b>Air Force Sustainment Center (AFSC) (404)</b>																				
IPE EQUIPMENT	A		-	-	-	0.447	5	2.235	0.378	7	2.644	0.383	5	1.915	-	-	-	0.383	5	1.915
<i>Secondary Distribution</i>																				
AF			-	-	-	-	5	2.235	-	2	0.755	-	3	1.149	-	-	-	-	3	1.149
AFNG			-	-	-	-	-	-	-	4	1.511	-	2	0.766	-	-	-	-	2	0.766
AFR			-	-	-	-	-	-	-	1	0.378	-	-	-	-	-	-	-	-	-
<b>Subtotal: Air Force Sustainment Center (AFSC) (404)</b>			-	-	-	-	-	<b>2.235</b>	-	-	<b>2.644</b>	-	-	<b>1.915</b>	-	-	-	-	-	<b>1.915</b>

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F / 04 / 5 **P-1 Line Item Number / Title:** 845990 / Items Less Than \$5 Million **Aggregated Items Title:** Items Less Than \$5 Million

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>OTHER ORGANIZATIONS</b>																				
AUTOMATED HIGH VACUUM GAUGE SYSTEM (AFMETCAL)	A		-	-	-	-	-	-	-	-	0.400	1	0.400	-	-	-	0.400	1	0.400	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	1	0.400	-	-	-	-	1	0.400	
DEPLOYABLE DEBRIEF FACILITIES (DDF)	A		-	-	-	-	0.980	-	-	1.308	-	-	1.346	-	-	-	-	-	1.346	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	0.980	-	-	1.308	-	-	1.346	-	-	-	-	-	1.346	
SHELTERS <sup>(3)</sup>	A		-	-	-	-	7.550	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	7.550	-	-	-	-	-	-	-	-	-	-	-	-	
EXERCISE PREFAB GYM FACILITY <sup>(4)</sup>	A		-	-	-	-	-	-	-	-	0.550	1	0.550	-	-	-	0.550	1	0.550	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	1	0.550	-	-	-	-	1	0.550	
<b>Subtotal: OTHER ORGANIZATIONS</b>			-	-	-	-	<b>8.530</b>	-	-	<b>1.308</b>	-	-	<b>2.296</b>	-	-	-	-	-	<b>2.296</b>	
<b>Total</b>			-	-	-	-	<b>34.707</b>	-	-	<b>28.427</b>	-	-	<b>28.768</b>	-	-	-	<b>110.405</b>	-	-	<b>139.173</b>

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

**Remarks:**

PROGRAM MANAGEMENT ADMINISTRATION (PMA): PMA supports the operation of the program office in its management and oversight role via travel, procurement of supplies and Advisory and Administrative Services (A&AS).

**Footnotes:**

- <sup>(1)</sup> FY16 funding includes \$9.100M requested for Overseas Contingency Operations to procure Fuels Support Equipment (FSE) and Fuels Operational Readiness Capability Equipment (FORCE).
- <sup>(2)</sup> FY18 funding includes \$110.405M requested for Overseas Contingency Operations to procure the European Contingency Air Operations Set (ECAOS) Deployable Air Base System (DABS) - Facilities, Equipment, and Vehicles (FEV)
- <sup>(3)</sup> FY16 funding includes \$4.150M requested for Overseas Contingency Operations to procure shelters.
- <sup>(4)</sup> FY18 funding for COCOM requirement for USAFE (Incirlik AB)

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects	<b>P-1 Line Item Number / Title:</b> 846070 / DARP RC135
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 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> )	-	23.973	25.287	25.985	0.700	26.685	26.449	26.918	27.402	27.896	-	184.610
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	23.973	25.287	25.985	0.700	26.685	26.449	26.918	27.402	27.896	-	184.610
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>23.973</b>	<b>25.287</b>	<b>25.985</b>	<b>0.700</b>	<b>26.685</b>	<b>26.449</b>	<b>26.918</b>	<b>27.402</b>	<b>27.896</b>	-	<b>184.610</b>

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

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

**Description:**

RC-135 procurement is executed by the Big Safari RC-135 Program Manager (PM) and is supported by various contractors. The contractors provide services including Program Depot Maintenance (PDM), prime mission equipment overhaul, special repair activity, in-plant support (sustainment engineering, software engineering, and program management), configuration management, LRU repair, and field service maintenance and training for special operational missions. The RC-135 Program Manager provides the full-range of weapons system management, acquisition oversight, program security and integrated logistics for the RC-135 aircraft, power plant, sensors and associated support and equipment. Due to the rapidly changing global threat environment, the PM has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander and Intelligence Community (IC) requirements.

Program element associated with this line is 0305207F.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects	<b>P-1 Line Item Number / Title:</b> 846070 / DARP RC135
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305207F
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**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	1 / DARP Modification (Capability Improvement)				- / -	- / 23.973	- / 25.287	- / 25.985	- / 0.700	- / 26.685
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 23.973	- / 25.287	- / 25.985	- / 0.700	- / 26.685

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 / DARP Modification (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / 26.449	- / 26.918	- / 27.402	- / 27.896	- / -	- / 184.610

\*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:**  
 FY18 procurement funding acquires and installs various upgrade and enhancement modifications for ground support equipment associated with the RC-135 program. This ground support equipment is directly tied to fielded baselines of the RC-135 V/W RIVET JOINT, RC-135S COBRA BALL, and the RC-135U COMBAT SENT. The requirement to maintain commonality with fielded baselines necessitates the continuous modification and installation of upgrades concurrent with RC-135 aircraft entering operational status. These ground systems are critical to the post-mission processing of highly perishable intelligence information, and supporting aircrew proficiency training, virtual simulation exercises that contribute to distributed mission training initiatives, and provide support to indigenous maintenance during aircraft deployments to "bare-base" locations. Additionally, all applicable ground support equipment is required to comply with NSA intelligence data recording formats and requirements due to the nature and sensitivity of the information.

Ground support equipment includes, but is not limited to: RIVET JOINT Mission Trainer (RJMT), Ground Data Processing System (GDPS), Mission Crew Training System (MCTS), Modular Processing System (MPS), and the Airborne Capability Extension System (ACES).

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846070 / DARP RC135	<b>Modification Number / Title:</b> 1 / DARP Modification

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	23.973	25.287	25.985	0.700	26.685	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	23.973	25.287	25.985	0.700	26.685	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>23.973</b>	<b>25.287</b>	<b>25.985</b>	<b>0.700</b>	<b>26.685</b>	-	-	-	-	-	-

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

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

**Description:**

RC-135 procurement is executed by the Big Safari RC-135 Program Manager (PM) and is supported by various contractors. The contractors provide services including Program Depot Maintenance (PDM), prime mission equipment overhaul, special repair activity, in-plant support (sustainment engineering, software engineering, and program management), configuration management, LRU repair, and field service maintenance and training for special operational missions. The RC-135 Program Manager provides the full-range of weapons system management, acquisition oversight, program security and integrated logistics for the RC-135 aircraft, power plant, sensors and associated support and equipment. Due to the rapidly changing global threat environment, the PM has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander and Intelligence Community (IC) requirements.

FY18 procurement funding acquires and installs various upgrade and enhancement modifications for ground support equipment associated with the RC-135 program. This ground support equipment is directly tied to fielded baselines of the RC-135 V/W RIVET JOINT, RC-135S COBRA BALL, and the RC-135U COMBAT SENT. The requirement to maintain commonality with fielded baselines necessitates the continuous modification and installation of upgrades concurrent with RC-135 aircraft entering operational status. These ground systems are critical to the post-mission processing of highly perishable intelligence information, and supporting aircrew proficiency training, virtual simulation exercises that contribute to distributed mission training initiatives, and provide support to indigenous maintenance during aircraft deployments to "bare-base" locations. Additionally, all applicable ground support equipment is required to comply with NSA intelligence data recording formats and requirements due to the nature and sensitivity of the information.

Ground support equipment includes, but is not limited to: RIVET JOINT Mission Trainer (RJMT), Ground Data Processing System (GDPS), Mission Crew Training System (MCTS), Modular Processing System (MPS), and the Airborne Capability Extension System (ACES).

Milestone/Development Status

Fully Fielded Systems

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>											<b>Date: May 2017</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6				<b>P-1 Line Item Number / Title:</b> 846070 / DARP RC135				<b>Modification Number / Title:</b> 1 / DARP Modification				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> RC135			<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 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)
<b>Procurement</b>												
<i>Modification Item 1 of 1:</i> BL12 Ground Systems												
A Kits												
Recurring												
BL12 Ground Systems:INSTALL KITS Group A (Active)	- / -	1 / 6.000	1 / 6.322	1 / 5.916	- / 0.700	1 / 6.616	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / 6.000	- / 6.322	- / 5.916	- / 0.700	- / 6.616	- / -	- / -	- / -	- / -	- / -	- / -
B Kits												
Recurring												
BL12 Ground Systems:EQUIPMENT Group B (Active)	- / -	1 / 16.901	1 / 17.893	1 / 18.997	- / -	1 / 18.997	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>	- / -	- / 16.901	- / 17.893	- / 18.997	- / -	- / 18.997	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: BL12 Ground Systems</i>	- / -	- / 22.901	- / 24.215	- / 24.913	- / 0.700	- / 25.613	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 22.901	- / 24.215	- / 24.913	- / 0.700	- / 25.613	- / -	- / -	- / -	- / -	- / -	- / -
<b>Installation</b>												
<i>Modification Item 1 of 1:</i> BL12 Ground Systems												
<i>Subtotal: Installation</i>	- / -	1 / 1.072	1 / 1.072	1 / 1.072	- / -	1 / 1.072	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	-	23.973	25.287	25.985	0.700	26.685	-	-	-	-	-	-



**UNCLASSIFIED**

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846070 / DARP RC135	<b>Modification Number / Title:</b> 1 / DARP Modification
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**Modification Item 1 of 1:** BL12 Ground Systems

**Manufacturer Information**

Manufacturer Name: L3 Communications	Manufacturer Location: Greenville, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 6

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	Jun 2016	Jun 2017	Jun 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 / 1.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	1 / 1.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	1 / 1.072	- / -	1 / 1.072	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	1 / 1.072	1 / 1.072	1 / 1.072	- / -	1 / 1.072	- / -	- / -	- / -	- / -	- / -	- / -

**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	-	-	0	7
Out	0	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	0	7

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0305208F	<b>Other Related Program Elements:</b> 0305208F, 0305240F
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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> )	-	177.021	198.455	178.423	9.200	187.623	159.085 <sup>(a)</sup>	151.591 <sup>(b)</sup>	154.322 <sup>(c)</sup>	157.109 <sup>(d)</sup>	-	1,185.206 <sup>(e)</sup>
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	177.021	198.455	178.423	9.200	187.623	159.085	151.591	154.322	157.109	-	1,185.206
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>177.021</b>	<b>198.455</b>	<b>178.423</b>	<b>9.200</b>	<b>187.623</b>	<b>159.085</b>	<b>151.591</b>	<b>154.322</b>	<b>157.109</b>	-	<b>1,185.206</b>

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

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

**Description:**

Air Force Distributed Common Ground System (AF DCGS)/PE0305208F is the Combat Air Force (CAF) weapon system architecture for planning and direction, collection, processing and exploitation, analysis and production, and dissemination (PCPAD) of data from Intelligence, Surveillance, and Reconnaissance (ISR) missions. Since AF DCGS is also a major component of the DoD DCGS, the system is designed to complement and interoperate with the DoD, Army, Navy and Marine Corps DCGS. The AF DCGS mission is to provide Joint Task Force (JTF) Commanders, Air Component Commanders, Unified Commands, and other directed organizations with global, time-sensitive ISR PCPAD across the spectrum of military operations. AF DCGS is a multi-INT network linked weapon system (AN/GSQ-272) capable of exploiting intelligence data from manned platforms, remotely piloted aircraft (RPA), non-traditional ISR platforms, national and commercial satellites, and other collection systems. AF DCGS is designed to support joint operational requirements by providing a common PCPAD means to provide time-sensitive intelligence to field commanders and in support of the Air Operations Center (AOC) mission requirements. Currently, the AF DCGS worldwide architecture is composed of two worldwide core sites, three regional core sites, two remote Air Force Forces (AF FOR) sites, four National Mission Partner (NMP) sites, three support sites, and multiple National Guard Bureau (NGB) sites. Currently, AF DCGS is supporting ongoing operations from forward deployed and in-garrison CONUS and OCONUS based locations. The system employs a concept of data distribution, information sharing and collaborative work centers. AF DCGS provides the national leadership and the warfighter with integrated and interoperable national and airborne reconnaissance by providing quality and fused Signals Intelligence (SIGINT), Measurement and Signature Intelligence (MASINT), and Geospatial Intelligence (GEOINT) tailored to the warfighter for all levels of conflict.

AF DCGS is transforming by integrating the necessary technologies and tools to provide increased capabilities and meet emerging and urgent operational needs. These efforts will also integrate commercial-off-the-shelf and government-off-the-shelf upgrades to provide current technologies and achieve necessary application services. The next series of upgrades will meet the operational need to integrate new and/or improved sensor capabilities, as well as enhance interoperability by migrating to an Open Architecture (OA) to improve data sharing ability per DoD direction.

AF DCGS is managed in eight efforts: GEOINT (GB 4.1), GEOINT Transformation, Systems Release (SR 3.0), SIGINT Transformation, Sensor Integration, Multi-INT, Infrastructure Transformation, and DCGS Reference Imagery Transition (DRT):

1. GB 4.1: The GEOINT Baseline 4.1 (GB4.1) effort completes the Bulk Release process and provides a common baseline across the weapon system. It also integrates Airborne Cuing and Exploitation System, Hyper Spectral ACES-HY (MQ-1) and Global Hawk Block 40 capability into AF DCGS.
2. GEOINT Transformation: The GEOINT Transformation effort rapidly integrates new capabilities and migrates GEOINT-specific applications & capabilities into the open architecture framework.
3. \*SR 3.0: The Systems Release (3.0) effort completes SIGINT Bulk Release process and provides a common baseline across the weapon system. Provides the ability to PCPAD the Airborne Signals Intelligence Payload (ASIP) family of systems and integrates the Common Intelligence Collections System (CICS) capability.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0305208F	<b>Other Related Program Elements:</b> 0305208F, 0305240F
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**Line Item MDAP/MAIS Code:** N/A

- 4. SIGINT Transformation: Rapidly integrate new capabilities, leverage mission partner methods and tools, exchange data, and migrate the SIGINT-specific applications/capabilities into the open architecture framework.
- 5. Sensor Integration: The Sensor Integration effort rapidly integrates AF, Joint, & Coalition Sensor data into DCGS Enterprise to ingest data, perform sensor planning, and Command & Control.
- 6. Multiple-Intelligence(Multi-INT): Provides and supports Open Architecture-based Enterprise Services, moves to commodity hardware, a virtual desktop environment, and facilitates enterprise-wide collaborative tools.
- 7. Network Infrastructure Transformation: The Infrastructure Transformation effort modernizes the AF DCGS infrastructure to improve data ingest, transfer, and storage capabilities while migrating the network toward a cloud architecture.
- 8. DRT: The Air Force DCGS Reference Imagery Transition (DRT) effort provides data ingest, transfer, and storage capabilities for NGA reference imagery data.

NOTE: \*Since FY18 appropriation is under \$5M in the budget year, system limitations prevent the P-3A from being displayed.

Detailed information on PE 0305240F, Support to DoD DCGS Enterprise remains classified and will be provided on a need-to-know basis.

Funding for this exhibit Line Item # 846080 is contained in PEs 0305208F and 0305240F.

FY17 funding totals include \$0.8M for Overseas Contingence Operations  
 FY18 funding totals include \$9.2M for Overseas Contingence Operations

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.), 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	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	173.521	190.955	167.823	9.200	177.023	123.111	129.507	131.839	134.220
AFNG	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	3.500	7.500	10.600	0.000	10.600	14.300	-	-	-
AFR	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>177.021</b>	<b>198.455</b>	<b>178.423</b>	<b>9.200</b>	<b>187.623</b>	<b>137.411</b>	<b>129.507</b>	<b>131.839</b>	<b>134.220</b>

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

**Appropriation / Budget Activity / Budget Sub Activity:** 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects **P-1 Line Item Number / Title:** 846080 / DCGS-AF

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0305208F **Other Related Program Elements:** 0305208F, 0305240F

**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	Distributed Common Ground/Surface Systems				- / 0.000	- / 39.507	- / 47.412	- / 12.770	- / 1.800	- / 14.570
P-3a	1 / GEOINT Transformation (GEOINT) (Reliability & Maintainability)				- / -	- / 14.478	- / 8.085	- / 18.796	- / 0.000	- / 18.796
P-3a	2 / Network Infrastructure Transformation (Reliability & Maintainability)				- / -	- / 74.182	- / 64.935	- / 106.550	- / 0.000	- / 106.550
P-3a	3 / Signals Intelligence (SIGINT) (Reliability & Maintainability)				- / -	- / 0.236	- / 29.092	- / 8.114	- / 7.400	- / 15.514
P-3a	4 / DCGS Reference Imagery Transition (DRT) (Reliability & Maintainability)				- / -	- / 16.799	- / 19.064	- / 10.900	- / 0.000	- / 10.900
P-40a	Support to DCGS Enterprise				- / -	- / 31.819	- / 29.867	- / 21.293	- / 0.000	- / 21.293
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 177.021</b>	<b>- / 198.455</b>	<b>- / 178.423</b>	<b>- / 9.200</b>	<b>- / 187.623</b>

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

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

**Justification:**

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

**Efforts with funding starting in FY 2019 through FY 2022 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:**

- (a) FY 2019 Cost Delta: 159.085 million
- (b) FY 2020 Cost Delta: 151.591 million
- (c) FY 2021 Cost Delta: 154.322 million
- (d) FY 2022 Cost Delta: 157.109 million
- (e) FY Total Cost Delta: 1,185.206 million

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force</b>															<b>Date: May 2017</b>				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6					<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF										<b>Aggregated Modification Items Title:</b> Distributed Common Ground/Surface Systems				

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
DCGS1 / Geospatial Intelligence Bulk Release (GB) 4.1			-	-	-	-	-	6.120	-	-	0.004	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	6.120	-	-	0.004	-	-	0.000	-	-	0.000	-	-	0.000
DCGS13 / NASIC			-	-	-	-	-	-	-	-	0.800	-	-	0.000	-	-	1.800	-	-	1.800
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	0.800	-	-	0.000	-	-	1.800	-	-	1.800
DCGS4 / Multi-Intelligence (Multi-INT)			-	-	-	-	-	15.616	-	-	11.032	-	-	6.732	-	-	0.000	-	-	6.732
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	15.616	-	-	11.032	-	-	6.732	-	-	0.000	-	-	6.732
DCGS5 / Sensor Integration			-	-	-	-	-	8.762	-	-	20.179	-	-	6.038	-	-	0.000	-	-	6.038
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	8.762	-	-	20.179	-	-	6.038	-	-	0.000	-	-	6.038
DCGS6 / System Release (SR) 3.0			-	-	-	-	-	9.009	-	-	15.397	-	-	0.000	-	-	0.000	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	9.009	-	-	15.397	-	-	0.000	-	-	0.000	-	-	0.000
<b>Total</b>			-	-	<b>0.000</b>	-	-	<b>39.507</b>	-	-	<b>47.412</b>	-	-	<b>12.770</b>	-	-	<b>1.800</b>	-	-	<b>14.570</b>

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

**Modification Information:**

Item Number / Title	Models of Systems Affected	Modification Type
DCGS1 / Geospatial Intelligence Bulk Release (GB) 4.1	0305208F	Reliability & Maintainability
DCGS13 / NASIC	0305208F	Reliability & Maintainability
DCGS4 / Multi-Intelligence (Multi-INT)	0305208F	Reliability & Maintainability
DCGS5 / Sensor Integration	0305208F	Reliability & Maintainability
DCGS6 / System Release (SR) 3.0	0305208F	Reliability & Maintainability

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date: May 2017</b>
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	<b>Modification Number / Title:</b> 1 / GEOINT Transformation (GEOINT)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	14.478	8.085	18.796	0.000	18.796
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	14.478	8.085	18.796	0.000	18.796
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>14.478</b>	<b>8.085</b>	<b>18.796</b>	<b>0.000</b>	<b>18.796</b>

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

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

**Description:**

The Geospatial Intelligence (GEOINT) Transformation effort rapidly integrates new capabilities and migrates GEOINT-specific applications & capabilities into the open architecture framework. Furthermore, GEOINT Transformation provides continuous and incremental improvement to the capability for planning and direction, collection, processing and exploitation, analysis and production, and dissemination (PCPAD) of advanced imagery intelligence. GEOINT Transformation builds upon GB4.1 to integrate new sensors, provide enhanced processing techniques, and provide imagery analysts the advanced capability to exploit, analyze, produce, and disseminate imagery.

**Justification:**

AF DCGS's GEOINT program's main focus is the procurement and fielding of proven technologies for multiple programs including GEOINT Transformation. The GEOINT Transformation leverages an agile infrastructure to use modern information technology (IT) practices and sets the stage from which to accomplish the goals of the AF DCGS architecture roadmap in manageable increments. GEOINT Transformation builds on the GB4.1 foundation to provide enhanced front-end image processing and advanced exploitation tools, which improve the timeliness and quality of GEOINT products, making them more useful to the war-fighter while simultaneously reducing the workload on the DCGS operator.

**Milestone/Development Status**

AF DCGS is in the Operations and Sustainment phase of the acquisition lifecycle. The weapon system has been declared FOC, and all modifications are being implemented in accordance with AFI 63-101.

<b>Secondary Distribution</b>		<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	14.478	8.085	18.796	0.000	18.796
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	<b>14.478</b>	<b>8.085</b>	<b>18.796</b>	<b>0.000</b>	<b>18.796</b>

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>					<b>Date: May 2017</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6			<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF		<b>Modification Number / Title:</b> 1 / GEOINT Transformation (GEOINT)	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>		
<b>Models of Systems Affected:</b> DCGS		<b>Modification Type:</b> Reliability & Maintainability			<b>Related RDT&amp;E PEs:</b>	
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>						
<i>Modification Item 1 of 1: GEOINT Transformation</i>						
B Kits						
Recurring						
GEOINT Transformation:EQUIPMENT Group B (Active)	- / -	0 / 13.050	0 / 6.900	0 / 18.100	0 / 0.000	0 / 18.100
<i>Subtotal: Recurring</i>	- / -	- / 13.050	- / 6.900	- / 18.100	- / 0.000	- / 18.100
<i>Subtotal: GEOINT Transformation</i>	- / -	- / 13.050	- / 6.900	- / 18.100	- / 0.000	- / 18.100
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 13.050	- / 6.900	- / 18.100	- / 0.000	- / 18.100
<b>Support (All Modification Items)</b>						
PMA - Other Gov't Costs	- / -	- / 0.042	- / 0.057	- / 0.033	- / 0.000	- / 0.033
PMA - Contractor Services	- / -	- / 1.386	- / 1.128	- / 0.663	- / -	- / 0.663
<i>Subtotal: Support</i>	- / -	- / 1.428	- / 1.185	- / 0.696	- / 0.000	- / 0.696
<b>Installation</b>						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>						
<b>Total Cost (Procurement + Support + Installation)</b>	-	<b>14.478</b>	<b>8.085</b>	<b>18.796</b>	<b>0.000</b>	<b>18.796</b>



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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force		<b>Date:</b> May 2017	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6		<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	
<b>Modification Number / Title:</b> 1 / GEOINT Transformation (GEOINT)			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>	
<b>Modification Item 1 of 1:</b> GEOINT Transformation			
<b>Manufacturer Information</b>			
Manufacturer Name: Various		Manufacturer Location: Robins AFB	
Administrative Leadtime (in Months): 0		Production Leadtime (in Months): 0	
<b>Dates</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates			
Delivery Dates			
<b>Installation Information</b>			
<b>Method of Implementation (Organic):</b> Org/Intermediate		<b>Installation Quantity:</b> 0	

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	<b>Modification Number / Title:</b> 2 / Network Infrastructure Transformation

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	74.182	64.935	106.550	0.000	106.550
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	74.182	64.935	106.550	0.000	106.550
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>74.182</b>	<b>64.935</b>	<b>106.550</b>	<b>0.000</b>	<b>106.550</b>

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

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

**Description:**

The Infrastructure Transformation effort modernizes the AF DCGS infrastructure to improve data ingest, transfer, and storage capabilities while migrating the network toward a cloud architecture. Furthermore, the Infrastructure Transformation program adds capabilities to the baseline of the FOC weapon system already fielded and does not replace it.

**Justification:**

AF DCGS's Network Infrastructure Transformation program's main focus is the procurement and fielding of proven technologies for network communications, centralized storage of imagery and full motion video, communication modernization, demilitarized zone, weapon system trainer, and x86 infrastructure and addresses diminishing manufacturing sources (DMS) weapons system issues. This program will continue to deliver an integrated net-centric upgrade to the network communications infrastructure; and address any other DMS issues that are identified with legacy systems/components that AF DCGS must interface with. Additionally, upgrades will meet the operational need to store and disseminate new and/or improved sensor data, and enhance interoperability by migrating to an open architecture construct and improving data sharing ability in compliance with DoD direction.

**Milestone/Development Status**

AF DCGS is in the Operations and Sustainment phase of the acquisition lifecycle. The weapon system has been declared FOC, and all modifications are being implemented in accordance with AFI 63-101.

<b>Secondary Distribution</b>		<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	70.682	57.435	95.950	0.000	95.950
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	3.500	7.500	10.600	-	10.600
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>74.182</b>	<b>64.935</b>	<b>106.550</b>	<b>0.000</b>	<b>106.550</b>

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>					<b>Date: May 2017</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6			<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF		<b>Modification Number / Title:</b> 2 / Network Infrastructure Transformation	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>		
<b>Models of Systems Affected:</b> 0305208F		<b>Modification Type:</b> Reliability & Maintainability			<b>Related RDT&amp;E PEs:</b>	
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>						
<i>Modification Item 1 of 1: Network Infrastructure</i>						
B Kits						
Recurring						
Network Infrastructure:EQUIPMENT Group B (Active)	- / -	0 / 68.102	0 / 54.463	0 / 91.948	0 / 0.000	0 / 91.948
Network Infrastructure:EQUIPMENT Group B (Guard)	- / -	0 / 3.500	0 / 7.500	0 / 10.600	- / -	0 / 10.600
<i>Subtotal: Recurring</i>	- / -	- / 71.602	- / 61.963	- / 102.548	- / 0.000	- / 102.548
<i>Subtotal: Network Infrastructure</i>	- / -	- / 71.602	- / 61.963	- / 102.548	- / 0.000	- / 102.548
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 71.602	- / 61.963	- / 102.548	- / 0.000	- / 102.548
<b>Support (All Modification Items)</b>						
PMA - Other Gov't Costs	- / -	- / 0.078	- / 0.104	- / 0.140	- / 0.000	- / 0.140
PMA - Contractor Services	- / -	- / 2.502	- / 2.868	- / 3.862	- / -	- / 3.862
<i>Subtotal: Support</i>	- / -	- / 2.580	- / 2.972	- / 4.002	- / 0.000	- / 4.002
<b>Installation</b>						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>						
<b>Total Cost (Procurement + Support + Installation)</b>	-	74.182	64.935	106.550	0.000	106.550

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force		<b>Date:</b> May 2017	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6		<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	
<b>Modification Number / Title:</b> 2 / Network Infrastructure Transformation			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>	
<b>Modification Item 1 of 1:</b> Network Infrastructure			
<b>Manufacturer Information</b>			
Manufacturer Name: Various		Manufacturer Location: Various	
Administrative Leadtime (in Months): 0		Production Leadtime (in Months): 0	
<b>Dates</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates			
Delivery Dates			
<b>Installation Information</b>			
<b>Method of Implementation (Organic):</b> Org/Intermediate		<b>Installation Quantity:</b> 0	

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date: May 2017</b>
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	<b>Modification Number / Title:</b> 3 / Signals Intelligence (SIGINT)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.236	29.092	8.114	7.400	15.514
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.236	29.092	8.114	7.400	15.514
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.236</b>	<b>29.092</b>	<b>8.114</b>	<b>7.400</b>	<b>15.514</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-

**Description:**

The Signal Intelligence (SIGINT) Transformation effort rapidly integrates new capabilities, leverage mission partner methods and tools, exchange data, and migrates the SIGINT-specific applications/capabilities to the open architecture framework. The SIGINT Segment provides command and control (C2) of ISR sensors, data processing, and data distribution to the customers in near real time from connected sensors at both core and remote sites.

**Justification:**

AF DCGS SIGINT Transformation's main focus is AF DCGS connectivity to NSANET. In order to accomplish this, SIGINT modernization must take place within the OA DCGS environment. This includes migration of SR3.0 software to an X86 environment and SIGINT workstation modernization. The NSANET project consists of SIGINT Ops on United States Cryptologic System (USCS) network, streaming special signal audio onto NSA domain for DMS sites, AF DCGS near real time tactical capabilities, DCGS/Rivet Joint (RJ) weapons system interoperability, automated language and speaker identification, AF DCGS demultiplexing capability and providing DMS sites with NSANET connectivity.

**Milestone/Development Status**

AF DCGS is in the Operations and Sustainment phase of the acquisition lifecycle. The weapon system has been declared FOC, and all modifications are being implemented in accordance with AFI 63-101.

<b>Secondary Distribution</b>		<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	0.236	29.092	8.114	7.400	15.514
<b>Total:</b>	Quantity	-	-	-	-	-
<b>Secondary Distribution</b>	Total Obligation Authority	<b>0.236</b>	<b>29.092</b>	<b>8.114</b>	<b>7.400</b>	<b>15.514</b>

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>					<b>Date: May 2017</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6			<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF		<b>Modification Number / Title:</b> 3 / Signals Intelligence (SIGINT)	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>		
<b>Models of Systems Affected:</b> 0305208F		<b>Modification Type:</b> Reliability & Maintainability		<b>Related RDT&amp;E PEs:</b> 0305208F		
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>Procurement</b>						
<i>Modification Item 1 of 1: Signals Intelligence Transformation</i>						
B Kits						
Recurring						
Signals Intelligence Transformation:EQUIPMENT Group B (Active)	- / -	0 / 0.100	0 / 28.454	0 / 7.882	0 / 7.400	0 / 15.282
<i>Subtotal: Recurring</i>	- / -	- / 0.100	- / 28.454	- / 7.882	- / 7.400	- / 15.282
<i>Subtotal: Signals Intelligence Transformation</i>	- / -	- / 0.100	- / 28.454	- / 7.882	- / 7.400	- / 15.282
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 0.100	- / 28.454	- / 7.882	- / 7.400	- / 15.282
<b>Support (All Modification Items)</b>						
PMA - Contractor Services	- / -	- / 0.133	- / 0.618	- / 0.225	- / -	- / 0.225
PMA - Other Gov't Costs	- / -	- / 0.003	- / 0.020	- / 0.007	- / -	- / 0.007
<i>Subtotal: Support</i>	- / -	- / 0.136	- / 0.638	- / 0.232	- / -	- / 0.232
<b>Installation</b>						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>						
<b>Total Cost (Procurement + Support + Installation)</b>	-	<b>0.236</b>	<b>29.092</b>	<b>8.114</b>	<b>7.400</b>	<b>15.514</b>

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force		<b>Date:</b> May 2017	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6		<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	
<b>Modification Number / Title:</b> 3 / Signals Intelligence (SIGINT)		<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	
		<b>MDAP/MAIS Code:</b>	
<b>Modification Item 1 of 1:</b> Signals Intelligence Transformation			
<b>Manufacturer Information</b>			
Manufacturer Name: various		Manufacturer Location: various	
Administrative Leadtime (in Months): 0		Production Leadtime (in Months): 0	
<b>Dates</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates			
Delivery Dates			
<b>Installation Information</b>			
<b>Method of Implementation (Organic):</b> Org/Intermediate		<b>Installation Quantity:</b> 0	

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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	<b>Modification Number / Title:</b> 4 / DCGS Reference Imagery Transition (DRT)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	16.799	19.064	10.900	0.000	10.900
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	16.799	19.064	10.900	0.000	10.900
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>16.799</b>	<b>19.064</b>	<b>10.900</b>	<b>0.000</b>	<b>10.900</b>

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

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

**Description:**

The Air Force DCGS Reference Imagery Transition (DRT) effort provides data ingest, transfer, and storage capabilities for National Geospatial Intelligence Agency (NGA) reference imagery data. This effort transitions AF DCGS reference imagery from the Direct Feed Image Product Library (DFIPL) to a centralized storage solution and distributes imagery across the DCGS Enterprise through a cloud architecture consisting of multiple data hubs, known as Data Storage and Dissemination (DSDs). Furthermore, this project will enhance the imagery distribution network of AF DCGS to allow the cloud architecture throughout several sites within the weapon system.

**Justification:**

The AF DRT effort's main focus is the procurement and fielding of proven technologies to centralize the storage and dissemination of imagery for the AF DCGS weapon system. This effort is necessary to transfer the reference imagery data path from the current retiring data path to the long term ACC vision for the weapon system. This effort also enhances the network backbone for the weapon system as it moves toward a cloud architecture for the distribution of data.

**Milestone/Development Status**

AF DCGS is in the Operations and Sustainment phase of the acquisition lifecycle. The weapon system has been declared FOC, and all modifications are being implemented in accordance with AFI 63-101.

<b>Secondary Distribution</b>		<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	16.799	19.064	10.900	0.000	10.900
<b>Total:</b> <b>Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	<b>16.799</b>	<b>19.064</b>	<b>10.900</b>	<b>0.000</b>	<b>10.900</b>



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<b>Exhibit P-3a, Individual Modification: FY 2018 Air Force</b>					<b>Date: May 2017</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6			<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF		<b>Modification Number / Title:</b> 4 / DCGS Reference Imagery Transition (DRT)	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>		
<b>Models of Systems Affected:</b> 0305208F		<b>Modification Type:</b> Reliability & Maintainability		<b>Related RDT&amp;E PEs:</b> 0305208F		
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)
<b>Procurement</b>						
<i>Modification Item 1 of 1: DRT</i>						
B Kits						
Recurring						
DRT:EQUIPMENT Group B (Active)	- / -	0 / 16.040	0 / 17.540	0 / 10.900	0 / 0.000	0 / 10.900
<i>Subtotal: Recurring</i>	- / -	- / 16.040	- / 17.540	- / 10.900	- / 0.000	- / 10.900
<i>Subtotal: DRT</i>	- / -	- / 16.040	- / 17.540	- / 10.900	- / 0.000	- / 10.900
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 16.040	- / 17.540	- / 10.900	- / 0.000	- / 10.900
<b>Support (All Modification Items)</b>						
PMA - Contractor Services	- / -	- / 0.759	- / 1.461	- / 0.000	- / 0.000	- / 0.000
PMA - Other Gov't Costs	- / -	- / 0.000	- / 0.063	- / 0.000	- / 0.000	- / 0.000
<i>Subtotal: Support</i>	- / -	- / 0.759	- / 1.524	- / 0.000	- / 0.000	- / 0.000
<b>Installation</b>						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>						
<b>Total Cost (Procurement + Support + Installation)</b>	-	16.799	19.064	10.900	0.000	10.900

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force		<b>Date:</b> May 2017	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6		<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	
		<b>Modification Number / Title:</b> 4 / DCGS Reference Imagery Transition (DRT)	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>	
<b>Modification Item 1 of 1:</b> DRT			
<b>Manufacturer Information</b>			
Manufacturer Name: Various		Manufacturer Location: Various	
Administrative Leadtime (in Months): 0		Production Leadtime (in Months): 0	
<b>Dates</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates			
Delivery Dates			
<b>Installation Information</b>			
<b>Method of Implementation (Organic):</b> Org/Intermediate		<b>Installation Quantity:</b> 0	

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**Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force** **Date:** May 2017

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 04 / 6	<b>P-1 Line Item Number / Title:</b> 846080 / DCGS-AF	<b>Aggregated Items Title:</b> Support to DCGS Enterprise
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Support to DCGS Enterprise</b>																				
Imagery Processing	A		-	-	-	-	-	3.526	-	-	3.532	-	-	3.611	-	-	0.000	-	-	3.611
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	3.526	-	-	3.532	-	-	3.611	-	-	0.000	-	-	3.611
Deployable Surface Terminal	A		-	-	-	-	-	9.356	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	9.356	-	-	-	-	-	-	-	-	-	-	-	-
Extended Tether Program	A		-	-	-	-	-	9.521	-	-	18.635	-	-	9.813	-	-	-	-	-	9.813
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	9.521	-	-	18.635	-	-	9.813	-	-	-	-	-	9.813
Wide Area Networks/ Networks	A		-	-	-	-	-	9.416	-	-	7.700	-	-	7.869	-	-	-	-	-	7.869
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	9.416	-	-	7.700	-	-	7.869	-	-	-	-	-	7.869
<b>Subtotal: Support to DCGS Enterprise</b>			-	-	-	-	-	<b>31.819</b>	-	-	<b>29.867</b>	-	-	<b>21.293</b>	-	-	<b>0.000</b>	-	-	<b>21.293</b>
<b>Total</b>			-	-	-	-	-	<b>31.819</b>	-	-	<b>29.867</b>	-	-	<b>21.293</b>	-	-	<b>0.000</b>	-	-	<b>21.293</b>

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

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects	<b>P-1 Line Item Number / Title:</b> 846510 / Special Update Program
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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> )	-	629.371	577.710	840.980	0.000	840.980	713.612	653.158	687.218	669.865	-	4,771.914
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	629.371	577.710	840.980	0.000	840.980	713.612	653.158	687.218	669.865	-	4,771.914
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>629.371</b>	<b>577.710</b>	<b>840.980</b>	<b>0.000</b>	<b>840.980</b>	<b>713.612</b>	<b>653.158</b>	<b>687.218</b>	<b>669.865</b>	-	<b>4,771.914</b>

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

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

**Description:**

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

**Justification:**

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

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects	<b>P-1 Line Item Number / Title:</b> 846570 / Defense Space Reconnaissance Prog.
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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> )	-	128.724	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	128.724
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	128.724	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	128.724
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>128.724</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	-	<b>128.724</b>

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

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

**Description:**

Detailed information on DSRP remains classified and will be provided on a need-to-know basis.

**Justification:**

Detailed information on DSRP remains classified and will be provided on a need-to-know basis.

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

**Appropriation / Budget Activity / Budget Sub Activity:**  
3080F: Other Procurement, Air Force / BA 05: Spares and Repair Parts / BSA 1: Spares And Repair Parts

**P-1 Line Item Number / Title:**  
861900 / Spares and Repair Parts

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

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

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	59.863	16.600	26.675	0.000	26.675	11.640	10.862	14.210	13.705	0.000	153.555
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	59.863	16.600	26.675	0.000	26.675	11.640	10.862	14.210	13.705	0.000	153.555
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>59.863</b>	<b>16.600</b>	<b>26.675</b>	<b>0.000</b>	<b>26.675</b>	<b>11.640</b>	<b>10.862</b>	<b>14.210</b>	<b>13.705</b>	<b>0.000</b>	<b>153.555</b>

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

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

**Description:**

Initial Spares consist of reparable components, assemblies, subassemblies, and consumable items required as initial stock (including readiness spares package requirements) in support of newly fielded vehicles, communications electronics and telecommunications equipment, and other base maintenance and support equipment items. Requirements are determined by applying established factors against the acquisition cost of the end items. The factors are based on historical data of similar equipment, employment/deployment concepts, production schedules, and other related information.

The funding for the following programs was transferred to the Space Procurement, Air Force appropriation beginning in FY17:

- Family of Advanced BLoS Terminals (FAB-T)
- Information Systems Security Program
- NAVSTAR Global Positioning System (Space and Control Segments)
- Space Situation Awareness 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:**  
3080F: Other Procurement, Air Force / BA 05: Spares and Repair Parts / BSA 1: Spares And Repair Parts

**P-1 Line Item Number / Title:**  
861900 / Spares and Repair Parts

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

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

Exhibits Schedule					Prior Years	FY 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-18	Spares and Repair Parts			199	- / -	- / 59.863	- / 16.600	- / 26.675	- / 0.000	- / 26.675
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 59.863</b>	<b>- / 16.600</b>	<b>- / 26.675</b>	<b>- / 0.000</b>	<b>- / 26.675</b>

Title represents the P-18 Title for Spares.

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

**Justification:**  
In FY2018 initial spares and repair parts will be procured for the following programs Air Traffic Control, Approach, and Landing System (ATCALs; Combat Training Range Equipment; Expeditionary Airfield Basing Assets; Information Systems Security Program; National Airspace System (NAS) Plan; and Weather Observation/Forecast.

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<b>Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: FY 2018 Air Force</b>					<b>Date: May 2017</b>		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3080F / 05 / 1		<b>P-1 Line Item Number / Title:</b> 861900 / Spares and Repair Parts			<b>Title:</b> Spares and Repair Parts		
<b>End Item Line Item Number / Name [MDAP/MAIS]</b>	<b>Prior Years</b> <i>(\$ M)</i>	<b>FY 2016</b> <i>(\$ M)</i>	<b>FY 2017</b> <i>(\$ M)</i>	<b>FY 2018 Base</b> <i>(\$ M)</i>	<b>FY 2018 OCO</b> <i>(\$ M)</i>	<b>FY 2018 Total</b> <i>(\$ M)</i>	
<b>Initial</b>							
BA 05 - Spares and Repair Parts							
861900 / Air Traffic Control, Approach, and Landing System (ATCALs)	-	2.775	4.964	4.751	0.000	4.751	
861900 / C-17 AIRCRAFT (IF)	-	1.100	0.000	0.000	0.000	0.000	
861900 / Combat Training Range Equipment	-	0.101	5.930	16.188	0.000	16.188	
861900 / Expeditionary Airfield Basing Assets	-	1.807	2.842	1.960	0.000	1.960	
861900 / Family of Advanced BLoS Terminals (FAB-T)	-	44.436	0.000	0.000	0.000	0.000	
861900 / Information Systems Security Program	-	1.987	1.687	2.588	0.000	2.588	
861900 / MILSATCOM Terminals [199]	-	0.054	0.000	0.000	0.000	0.000	
861900 / National Airspace System (NAS) Plan	-	0.000	0.000	0.247	0.000	0.247	
861900 / NAVSTAR Global Positioning System (Space and Control Segments)	-	0.533	0.000	0.000	0.000	0.000	
861900 / NCMC - TW/AA System	-	0.877	0.458	0.000	0.000	0.000	
861900 / Space Situation Awareness Operations	-	4.868	0.000	0.000	0.000	0.000	
861900 / Weather Observation/Forecast	-	0.278	0.719	0.941	0.000	0.941	
861900 / Worldwide Joint Strategic Communications	-	1.047	0.000	0.000	0.000	0.000	
<b>Subtotal: Initial</b>	-	<b>59.863</b>	<b>16.600</b>	<b>26.675</b>	<b>0.000</b>	<b>26.675</b>	
<b>Total Cost (Initial + Replenishment)</b>	-	<b>59.863</b>	<b>16.600</b>	<b>26.675</b>	<b>0.000</b>	<b>26.675</b>	

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