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**Department of Defense
Fiscal Year (FY) 2017 Request for Additional Appropriations**

March 2017



Air Force

Justification Book Volume 1 of 1

Other Procurement, Air Force

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Air Force • Request for Additional Appropriations FY 2017 • Procurement

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Department of the Air Force
 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Total Obligational Authority
 (Dollars in Thousands) 08 Mar 2017

Appropriation -----	FY 2017 PB Request Base -----	FY 2017 Mar Amended Request Base -----	FY 2017 Revised PB Request Base -----	FY 2017 PB Request OCO -----
Aircraft Procurement, Air Force	13,922,917	1,847,520	15,770,437	859,399
Missile Procurement, Air Force	2,426,621		2,426,621	339,545
Space Procurement, Air Force	3,055,743	19,900	3,075,643	
Procurement of Ammunition, Air Force	1,677,719	70,000	1,747,719	487,408
Other Procurement, Air Force	17,438,056	1,148,032	18,586,088	3,696,281
Total Department of the Air Force	38,521,056	3,085,452	41,606,508	5,382,633

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 Total Obligational Authority
 (Dollars in Thousands) 08 Mar 2017

Appropriation: Other Procurement, Air Force

Budget Activity -----	FY 2017 PB Request Base -----	FY 2017 Mar Amended Request Base -----	FY 2017 Revised PB Request Base -----	FY 2017 PB Request OCO -----
02. Vehicular Equipment	141,151	567,136	708,287	106,817
03. Electronics and Telecommunications Equip	1,285,033	270,700	1,555,733	62,670
04. Other Base Maintenance and Support Equip	15,996,088	309,380	16,305,468	3,526,794
05. Spares and Repair Parts	15,784	816	16,600	
Total Other Procurement, Air Force	17,438,056	1,148,032	18,586,088	3,696,281

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 Total Obligational Authority
 (Dollars in Thousands) 08 Mar 2017

Appropriation: Other Procurement, Air Force

Budget Activity	FY 2017 Nov Amended Request OCO	FY 2017 Mar Amended Request OCO	FY 2017 Total OCO Request	FY 2017 Less Enacted Div.B,P.L. 114-254 OCO
-----	-----	-----	-----	-----
02. Vehicular Equipment			106,817	
03. Electronics and Telecommunications Equip		76,000	138,670	
04. Other Base Maintenance and Support Equip	137,884	497,713	4,162,391	-137,884
05. Spares and Repair Parts				
Total Other Procurement, Air Force	137,884	573,713	4,407,878	-137,884

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 (Dollars in Thousands) 08 Mar 2017

Appropriation: Other Procurement, Air Force

Budget Activity	FY 2017 Remaining PB Request OCO	FY 2017 PB Request wNov Amend Less Enacted PL 114-254 Base+OCO	FY 2017 Mar Amended Request Base+OCO	FY 2017 PB Remaining Base+OCO
-----	-----	-----	-----	-----
02. Vehicular Equipment	106,817	247,968	567,136	815,104
03. Electronics and Telecommunications Equip	138,670	1,347,703	346,700	1,694,403
04. Other Base Maintenance and Support Equip	4,024,507	19,522,882	807,093	20,329,975
05. Spares and Repair Parts		15,784	816	16,600
Total Other Procurement, Air Force	4,269,994	21,134,337	1,721,745	22,856,082

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 Total Obligational Authority
 (Dollars in Thousands) 08 Mar 2017

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request Base		FY 2017 Mar Amended Request Base		FY 2017 Revised PB Request Base		FY 2017 PB Request OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Vehicular Equipment											
Passenger Carrying Vehicles											
1	Passenger Carrying Vehicles	A		14,437				14,437		2,003	U
Cargo and Utility Vehicles											
2	Medium Tactical Vehicle	A		24,812				24,812		9,066	U
3	Cap Vehicles	A		984				984			U
4	Items Less Than \$5 Million	A		11,191		111,000		122,191		12,264	U
Special Purpose Vehicles											
5	Security And Tactical Vehicles	A		5,361		35,000		40,361			U
6	Items Less Than \$5 Million	A		4,623		35,000		39,623		16,789	U
Fire Fighting Equipment											
7	Fire Fighting/Crash Rescue Vehicles	A		12,451		94,000		106,451		48,590	U
Materials Handling Equipment											
8	Items Less Than \$5 Million	A		18,114		98,000		116,114		2,366	U
Base Maintenance Support											

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9 Runway Snow Remov & Cleaning Equip	A	2,310	70,000	72,310	6,468	U
10 Items Less Than \$5 Million	A	46,868	124,136	171,004	9,271	U
Total Vehicular Equipment		----- 141,151	----- 567,136	----- 708,287	----- 106,817	

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Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Nov Amended Request OCO		FY 2017 Mar Amended Request OCO		FY 2017 Total OCO Request		FY 2017 Less Enacted Div.B,P.L. 114-254 OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Vehicular Equipment											
Passenger Carrying Vehicles											
1	Passenger Carrying Vehicles	A						2,003			U
Cargo and Utility Vehicles											
2	Medium Tactical Vehicle	A						9,066			U
3	Cap Vehicles	A									U
4	Items Less Than \$5 Million	A						12,264			U
Special Purpose Vehicles											
5	Security And Tactical Vehicles	A									U
6	Items Less Than \$5 Million	A						16,789			U
Fire Fighting Equipment											
7	Fire Fighting/Crash Rescue Vehicles	A						48,590			U
Materials Handling Equipment											
8	Items Less Than \$5 Million	A						2,366			U
Base Maintenance Support											

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9 Runway Snow Remov & Cleaning Equip	A		6,468	U
10 Items Less Than \$5 Million	A		9,271	U
		-----	-----	-----
Total Vehicular Equipment			106,817	

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Vehicular Equipment											
Passenger Carrying Vehicles											
1	Passenger Carrying Vehicles	A		2,003		16,440				16,440	U
Cargo and Utility Vehicles											
2	Medium Tactical Vehicle	A		9,066		33,878				33,878	U
3	Cap Vehicles	A				984				984	U
4	Items Less Than \$5 Million	A		12,264		23,455		111,000		134,455	U
Special Purpose Vehicles											
5	Security And Tactical Vehicles	A				5,361		35,000		40,361	U
6	Items Less Than \$5 Million	A		16,789		21,412		35,000		56,412	U
Fire Fighting Equipment											
7	Fire Fighting/Crash Rescue Vehicles	A		48,590		61,041		94,000		155,041	U
Materials Handling Equipment											
8	Items Less Than \$5 Million	A		2,366		20,480		98,000		118,480	U
Base Maintenance Support											

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9 Runway Snow Remov & Cleaning Equip	A	6,468	8,778	70,000	78,778	U
10 Items Less Than \$5 Million	A	9,271	56,139	124,136	180,275	U
Total Vehicular Equipment		----- 106,817	----- 247,968	----- 567,136	----- 815,104	

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Line No	Item Nomenclature	Ident Code	FY 2017 PB Request Base		FY 2017 Mar Amended Request Base		FY 2017 Revised PB Request Base		FY 2017 PB Request OCO		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		8,000		80,359			U
Intelligence Programs											
12	Intelligence Training Equipment	A		6,982				6,982			U
13	Intelligence Comm Equipment	A		30,504				30,504			U
Electronics Programs											
14	Air Traffic Control & Landing Sys	A		55,803		23,400		79,203		42,650	U
15	National Airspace System	A		2,673				2,673			U
16	Battle Control System - Fixed	A		5,677				5,677			U
17	Theater Air Control Sys Improvements	A		1,163				1,163			U
18	Weather Observation Forecast	A		21,667				21,667			U
19	Strategic Command And Control	A		39,803				39,803			U
20	Cheyenne Mountain Complex	A		24,618				24,618			U
21	Mission Planning Systems	A		15,868				15,868			U

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22 Integrated Strat Plan & Analy Network (ISPAN)	A	9,331	9,331	U
Spcl Comm-Electronics Projects				
23 General Information Technology	A	41,779	41,779	U
24 AF Global Command & Control Sys	A	15,729	15,729	U

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Line No	Item Nomenclature	Ident Code	FY 2017 Nov Amended Request OCO		FY 2017 Mar Amended Request OCO		FY 2017 Total OCO Request		FY 2017 Less Enacted Div.B,P.L. 114-254 OCO		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									U
Intelligence Programs											
12	Intelligence Training Equipment	A									U
13	Intelligence Comm Equipment	A									U
Electronics Programs											
14	Air Traffic Control & Landing Sys	A						42,650			U
15	National Airspace System	A									U
16	Battle Control System - Fixed	A									U
17	Theater Air Control Sys Improvements	A									U
18	Weather Observation Forecast	A									U
19	Strategic Command And Control	A									U
20	Cheyenne Mountain Complex	A									U
21	Mission Planning Systems	A									U

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22 Integrated Strat Plan & Analy Network (ISPAN)	A	U
Spcl Comm-Electronics Projects		
23 General Information Technology	A	U
24 AF Global Command & Control Sys	A	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			72,359		8,000		80,359		U
Intelligence Programs											
12	Intelligence Training Equipment	A			6,982				6,982		U
13	Intelligence Comm Equipment	A			30,504				30,504		U
Electronics Programs											
14	Air Traffic Control & Landing Sys	A		42,650	98,453		23,400		121,853		U
15	National Airspace System	A			2,673				2,673		U
16	Battle Control System - Fixed	A			5,677				5,677		U
17	Theater Air Control Sys Improvements	A			1,163				1,163		U
18	Weather Observation Forecast	A			21,667				21,667		U
19	Strategic Command And Control	A			39,803				39,803		U
20	Cheyenne Mountain Complex	A			24,618				24,618		U
21	Mission Planning Systems	A			15,868				15,868		U

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22 Integrated Strat Plan & Analy Network (ISPAN)	A	9,331	9,331 U
Spcl Comm-Electronics Projects			
23 General Information Technology	A	41,779	41,779 U
24 AF Global Command & Control Sys	A	15,729	15,729 U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
25	Mobility Command and Control	A		9,814				9,814			U
26	Air Force Physical Security System	A		99,460		144,600		244,060		7,500	U
27	Combat Training Ranges	A		34,850				34,850			U
28	Minimum Essential Emergency Comm N	A		198,925				198,925			U
29	Wide Area Surveillance (WAS)			6,943				6,943			U
30	C3 Countermeasures	A		19,580				19,580		620	U
31	GCSS-AF Fos	A		1,743				1,743			U
32	Theater Battle Mgt C2 System	A		9,659				9,659			U
33	Air & Space Operations Ctr-WPN SYS	A		15,474				15,474			U
34	Air Operations Center (AOC) 10.2			30,623				30,623			U
Air Force Communications											
35	Information Transport Systems	A		40,043				40,043			U
36	AFNET	A		146,897				146,897			U
37	Joint Communications Support Element (JCSE)	A		5,182				5,182			U
38	USCENTCOM	A		13,418				13,418			U

Organization and Base

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39 Tactical C-E Equipment	A	109,836	34,200	144,036	8,100	U
40 Radio Equipment	A	16,266		16,266		U
41 CCTV/Audiovisual Equipment	A	7,449		7,449		U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
25	Mobility Command and Control	A									U
26	Air Force Physical Security System	A				76,000			83,500		U
27	Combat Training Ranges	A									U
28	Minimum Essential Emergency Comm N	A									U
29	Wide Area Surveillance (WAS)										U
30	C3 Countermeasures	A							620		U
31	GCSS-AF Fos	A									U
32	Theater Battle Mgt C2 System	A									U
33	Air & Space Operations Ctr-WPN SYS	A									U
34	Air Operations Center (AOC) 10.2										U
Air Force Communications											
35	Information Transport Systems	A									U
36	AFNET	A									U
37	Joint Communications Support Element (JCSE)	A									U
38	USCENTCOM	A									U
Organization and Base											

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39 Tactical C-E Equipment	A	8,100	U
40 Radio Equipment	A		U
41 CCTV/Audiovisual Equipment	A		U

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Line No	Item Nomenclature	Ident Code	FY 2017 Remaining PB Request OCO		FY 2017 PB Request wNov Amend Less Enacted PL 114-254 Base+OCO		FY 2017 Mar Amended Request Base+OCO		FY 2017 PB Remaining Base+OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
25	Mobility Command and Control	A				9,814			9,814		U
26	Air Force Physical Security System	A		83,500		106,960		220,600	327,560		U
27	Combat Training Ranges	A				34,850			34,850		U
28	Minimum Essential Emergency Comm N	A				198,925			198,925		U
29	Wide Area Surveillance (WAS)					6,943			6,943		U
30	C3 Countermeasures	A		620		20,200			20,200		U
31	GCSS-AF Fos	A				1,743			1,743		U
32	Theater Battle Mgt C2 System	A				9,659			9,659		U
33	Air & Space Operations Ctr-WPN SYS	A				15,474			15,474		U
34	Air Operations Center (AOC) 10.2					30,623			30,623		U
Air Force Communications											
35	Information Transport Systems	A				40,043			40,043		U
36	AFNET	A				146,897			146,897		U
37	Joint Communications Support Element (JCSE)	A				5,182			5,182		U
38	USCENTCOM	A				13,418			13,418		U

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39 Tactical C-E Equipment	A	8,100	117,936	34,200	152,136	U
40 Radio Equipment	A		16,266		16,266	U
41 CCTV/Audiovisual Equipment	A		7,449		7,449	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
42	Base Comm Infrastructure	A		109,215		60,500		169,715			U
	Modifications										
43	Comm Elect Mods	A		65,700				65,700		3,800	U
Total Electronics and Telecommunications Equip				1,285,033		270,700		1,555,733		62,670	
Budget Activity 04: Other Base Maintenance and Support Equip											
Personal Safety & Rescue Equip											
44	Items Less Than \$5 Million	A		54,416		16,600		71,016			U
Depot Plant+Mtrls Handling Eq											
45	Mechanized Material Handling Equip	A		7,344		7,344		14,688			U
Base Support Equipment											
46	Base Procured Equipment	A		6,852				6,852			U
47	Engineering and EOD Equipment	A				221,000		221,000		53,900	U
48	Mobility Equipment	A		8,146		34,982		43,128			U
49	Items Less Than \$5 Million	A		28,427				28,427			U
Special Support Projects											

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51 DARP RC135	A	25,287		25,287		U
52 DCGS-AF	A	169,201	28,454	197,655	800	U
54 Special Update Program	A	576,710	1,000	577,710		U

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Department of the Air Force
 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Total Obligational Authority
 (Dollars in Thousands) 08 Mar 2017

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Nov Amended Request OCO		FY 2017 Mar Amended Request OCO		FY 2017 Total OCO Request		FY 2017 Less Enacted Div.B,P.L. 114-254 OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
42	Base Comm Infrastructure Modifications	A									U
43	Comm Elect Mods	A						3,800			U
Total Electronics and Telecommunications Equip							76,000	138,670			
Budget Activity 04: Other Base Maintenance and Support Equip											
Personal Safety & Rescue Equip											
44	Items Less Than \$5 Million	A									U
Depot Plant+Mtrls Handling Eq											
45	Mechanized Material Handling Equip	A									U
Base Support Equipment											
46	Base Procured Equipment	A									U
47	Engineering and EOD Equipment	A						53,900			U
48	Mobility Equipment	A									U
49	Items Less Than \$5 Million	A									U
Special Support Projects											

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51 DARP RC135	A		U
52 DCGS-AF	A	800	U
54 Special Update Program	A		U

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Department of the Air Force
 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Total Obligational Authority
 (Dollars in Thousands) 08 Mar 2017

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Remaining PB Request OCO		FY 2017 PB Request wNov Amend Less Enacted PL 114-254 Base+OCO		FY 2017 Mar Amended Request Base+OCO		FY 2017 PB Remaining Base+OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
42	Base Comm Infrastructure Modifications	A			109,215		60,500		169,715		U
43	Comm Elect Mods	A		3,800		69,500			69,500		U
Total Electronics and Telecommunications Equip				138,670		1,347,703		346,700		1,694,403	
Budget Activity 04: Other Base Maintenance and Support Equip											
Personal Safety & Rescue Equip											
44	Items Less Than \$5 Million	A				54,416		16,600		71,016	U
Depot Plant+Mtrls Handling Eq											
45	Mechanized Material Handling Equip	A				7,344		7,344		14,688	U
Base Support Equipment											
46	Base Procured Equipment	A				6,852				6,852	U
47	Engineering and EOD Equipment	A		53,900		53,900		221,000		274,900	U
48	Mobility Equipment	A				8,146		34,982		43,128	U
49	Items Less Than \$5 Million	A				28,427				28,427	U
Special Support Projects											

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51 DARP RC135	A		25,287		25,287	U
52 DCGS-AF	A	800	170,001	28,454	198,455	U
54 Special Update Program	A		576,710	1,000	577,710	U

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Department of the Air Force
 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Total Obligational Authority
 (Dollars in Thousands) 08 Mar 2017

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request Base		FY 2017 Mar Amended Request Base		FY 2017 Revised PB Request Base		FY 2017 PB Request OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
999	Classified Programs			15,119,705				15,119,705		3,472,094	U
	Total Other Base Maintenance and Support Equip			15,996,088		309,380		16,305,468		3,526,794	
Budget Activity 05: Spares and Repair Parts											

Spares and Repair Parts											
56	Spares and Repair Parts	A		15,784		816		16,600			U
	Total Spares and Repair Parts			15,784		816		16,600			
	Total Other Procurement, Air Force			17,438,056		1,148,032		18,586,088		3,696,281	

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Department of the Air Force
 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Total Obligational Authority 08 Mar 2017
 (Dollars in Thousands)

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Nov Amended Request OCO		FY 2017 Mar Amended Request OCO		FY 2017 Total OCO Request		FY 2017 Less Enacted Div.B,P.L. 114-254 OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
999	Classified Programs			137,884		497,713		4,107,691		-137,884	U
	Total Other Base Maintenance and Support Equip			137,884		497,713		4,162,391		-137,884	
Budget Activity 05: Spares and Repair Parts											

Spares and Repair Parts											
56	Spares and Repair Parts	A		-----		-----		-----		-----	U
	Total Spares and Repair Parts			-----		-----		-----		-----	
	Total Other Procurement, Air Force			137,884		573,713		4,407,878		-137,884	

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Department of the Air Force
 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Total Obligational Authority
 (Dollars in Thousands) 08 Mar 2017

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Remaining PB Request OCO		FY 2017 PB Request wNov Amend Less Enacted PL 114-254 Base+OCO		FY 2017 Mar Amended Request Base+OCO		FY 2017 PB Remaining Base+OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
999	Classified Programs			3,969,807		18,591,799		497,713		19,089,512	U
	Total Other Base Maintenance and Support Equip			4,024,507		19,522,882		807,093		20,329,975	
	Budget Activity 05: Spares and Repair Parts										
	Spares and Repair Parts										
	56 Spares and Repair Parts	A				15,784		816		16,600	U
	Total Spares and Repair Parts					15,784		816		16,600	
	Total Other Procurement, Air Force			4,269,994		21,134,337		1,721,745		22,856,082	

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Air Force • Request for Additional Appropriations FY 2017 • Procurement

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Air Force • Request for Additional Appropriations FY 2017 • Procurement

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52	04	06	846080	DCGS-AF.....	Volume 1 - 51
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Air Force • Request for Additional Appropriations FY 2017 • Procurement

Appropriation 3080F: Other Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
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Air Force • Request for Additional Appropriations FY 2017 • Procurement

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Air Force • Request for Additional Appropriations FY 2017 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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 / Items Less Than \$5 Million
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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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	27.778	12.483	122.191	12.264	134.455	14.161	8.478	8.886	9.106	-	215.347
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	27.778	12.483	122.191	12.264	134.455	14.161	8.478	8.886	9.106	-	215.347
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	27.778	12.483	122.191	12.264	134.455	14.161	8.478	8.886	9.106	-	215.347

(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:

FY15 funding totals include \$3M 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, 028028F, 0305114F, 0401221F, 0502834F, 0502844F, 0702831F.

"Fiscal Year (FY) 2017 Request for Additional Appropriations" : \$111 million is required to address emergency warfighting readiness requirements. Procure vehicles integral to the support of weapons platforms, installation maintenance, emergency services, base security, and warfighter operations. Procure vehicles used to establish, repair and protect operating locations and to maintain and repair runways, taxiways and ramps. Procure vehicles to support the deployment and employment of forces, cargo movement, weapons loading, and fueling of aircraft.

Justification:

FY17 procurement dollars in the amount of \$11.191M will procure, but is not limited, to 338 vehicles in support of installation and unit mission requirements for Air Force personnel.

FY17 OCO dollars in the amount of \$12.264M will procure, but is not limited, to 381 vehicles in support of Overseas Contingency Operations.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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 / Items Less Than \$5 Million
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>"Fiscal Year (FY) 2017 Request for Additional Appropriations" : \$111 million is required to address emergency warfighting readiness requirements. Procure vehicles integral to the support of weapons platforms, installation maintenance, emergency services, base security, and warfighter operations. Procure vehicles used to establish, repair and protect operating locations and to maintain and repair runways, taxiways and ramps. Procure vehicles to support the deployment and employment of forces, cargo movement, weapons loading, and fueling of aircraft.</p>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	10.027	4.728	40.361	0.000	40.361	4.986	35.290	35.739	36.382	-	167.513
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	10.027	4.728	40.361	0.000	40.361	4.986	35.290	35.739	36.382	-	167.513
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	10.027	4.728	40.361	0.000	40.361	4.986	35.290	35.739	36.382	-	167.513

(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. In the future, funding will be used to procure next generation security and tactical vehicles.

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.

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, retrofits, spares, repairs, deployment packages and returns. 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.

Funding for this exhibit contained in PEs 0202834F, 0207227F, 0502834F, 0502844F, 0702831F, 0804731F.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$35 million for PE 72831F is required to address emergency warfighting readiness requirements. The USAF JLTV program will need multiple System Technical Studies (STS) Work Directives generated and worked thru the Joint Program Office (JPO) for USAF specific requirements, additional testing, and kit operability on all four platforms: General Purpose (GP), Utility (UTL), Heavy Guns Carrier (HGC), and Close Combat Weapons Carrier (CCWC). FY17 funding will assist the AF Program Office in working the user configurations on each platform prior to Full Rate Production and anticipated funding in FY18. The work directives will allow procurement of Contractor Furnished Equipment (CFE) and Government Furnished Equipment (GFE) kits, as well as at least one JLTV

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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		
of each variant: GP, UTL, HGC and CCWC. 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.		
Justification: FY17 funding procures, but is not limited to, 88 trailers and 9 Guardian Angel Air Deployable Rescue Vehicles in support of installation and unit mission requirements for Air Force Personnel. "Fiscal Year (FY) 2017 Request for Additional Appropriations": \$35 million is required to address emergency warfighting readiness requirements. The USAF JLTV program will need multiple System Technical Studies (STS) Work Directives generated and worked thru the Joint Program Office (JPO) for USAF specific requirements, additional testing, and kit operability on all four platforms: General Purpose (GP), Utility (UTL), Heavy Guns Carrier (HGC), and Close Combat Weapons Carrier (CCWC). FY17 funding will assist the AF Program Office in working the user configurations on each platform prior to Full Rate Production and anticipated funding in FY18. The work directives will allow procurement of Contractor Furnished Equipment (CFE) and Government Furnished Equipment (GFE) kits, as well as at least one JLTV of each variant: GP, UTL, HGC and CCWC. 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.		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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 / Items Less Than \$5 Million
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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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	9.781	4.662	39.623	16.789	56.412	8.690	15.520	16.333	16.344	-	127.742
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	9.781	4.662	39.623	16.789	56.412	8.690	15.520	16.333	16.344	-	127.742
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	9.781	4.662	39.623	16.789	56.412	8.690	15.520	16.333	16.344	-	127.742

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

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

Description:

FY15 funding totals include \$1.878 million 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, diable 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 defual 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, 0402834F, 0502834F, 0702831F.

"Fiscal Year (FY) 2017 Request for Additional Appropriations" \$35 million is required to address emergency warfighting readiness requirements. Procure vehicles integral to the support of weapons platforms, installation maintenance, emergency services, base security, and warfighter operations. Procure vehicles used to establish, repair and protect operating locations and to maintain and repair runways, taxiways and ramps. Procure vehicles to support the deployment and employment of forces, cargo movement, weapons loading, and fueling of aircraft

Justification:

FY17 funding procures, but is not limited to, 37 vehicles in support of installation and unit mission requirements for Air Force personnel.

FY17 OCO dollars procure, but is not limited to 79 vehicles in support of Overseas Contingency Operations.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 2017

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 4: Fire Fighting Equipment	P-1 Line Item Number / Title: 824010 / FIRE FIGHTING/CRASH RESCUE 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: 0202834F, 0901279F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	10.152	10.419	106.451	48.590	155.041	13.639	14.569	15.644	15.926	-	235.390
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	10.152	10.419	106.451	48.590	155.041	13.639	14.569	15.644	15.926	-	235.390
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	10.152	10.419	106.451	48.590	155.041	13.639	14.569	15.644	15.926	-	235.390

(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 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.

-- 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.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force	Date: March 2017
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Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 4: Fire Fighting Equipment	P-1 Line Item Number / Title: 824010 / FIRE FIGHTING/CRASH RESCUE VEHICLES
--	--

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0202834F, 0901279F
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Line Item MDAP/MAIS Code: N/A

-- 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.

-- 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.

-- 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 handline all mounted on an F-550 chassis.

-- 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.

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.

The FY17 funding request was reduced by \$152K to account for the availability of prior year execution balances.

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 0202834F and 0901279F.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$94 million PE 91279F is required to address emergency warfighting readiness requirements. Procure vehicles integral to the support of weapons platforms, installation maintenance, emergency services, base security, and warfighter operations. Procure vehicles used to establish, repair and protect operating locations and to maintain and repair runways, taxiways and ramps. Procure vehicles to support the deployment and employment of forces, cargo movement, weapons loading, and fueling of aircraft.

Justification:

FY17 funding procures, but is not limited to, 25 vehicles in support of installation and unit mission requirements for Air Force personnel.

FY17 OCO dollars procure, but is not limited to, 92 vehicles in support of installation and unit mission requirements for the Air Force personnel.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$94 million is required to address emergency warfighting readiness requirements. Procure vehicles integral to the support of weapons platforms, installation maintenance, emergency services, base security, and warfighter operations. Procure vehicles used to establish, repair and protect operating locations and to maintain and repair runways, taxiways and ramps. Procure vehicles to support the deployment and employment of forces, cargo movement, weapons loading, and fueling of aircraft.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 2017

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 5: Materials Handling Equipment	P-1 Line Item Number / Title: 825990 / Items Less Than \$5 Million
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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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	20.239	23.320	116.114	2.366	118.480	10.516	17.193	17.357	17.810	-	224.915
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	20.239	23.320	116.114	2.366	118.480	10.516	17.193	17.357	17.810	-	224.915
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	20.239	23.320	116.114	2.366	118.480	10.516	17.193	17.357	17.810	-	224.915

(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:

FY15 funding totals include \$5.131 million for Overseas Contingency Operations.

This program includes various material handling vehicles with an individual item procurement value of less than \$5 million. These vehicles consist of lifting trucks, sequencing trucks, and other warehouse equipment 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, 0402834F, 0502834F, 0702831F.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$98 million is required to address emergency warfighting readiness requirements. Procure vehicles integral to the support of weapons platforms, installation maintenance, emergency services, base security, and warfighter operations. Procure vehicles used to establish, repair and protect operating locations and to maintain and repair runways, taxiways and ramps. Procure vehicles to support the deployment and employment of forces, cargo movement, weapons loading, and fueling of aircraft.

Justification:

FY17 funding procures, but is not limited to 149 vehicles in support of installation and unit mission requirements for Air Force personnel.

FY17 OCO dollars procure, but is not limited to 23 vehicles in support of Overseas Contingency Operations.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$98 million is required to address emergency warfighting readiness requirements. Procure vehicles integral to the support of weapons platforms, installation maintenance, emergency services, base security, and warfighter operations. Procure vehicles used to establish, repair and protect operating locations and to maintain and repair runways, taxiways and ramps. Procure vehicles to support the deployment and employment of forces, cargo movement, weapons loading, and fueling of aircraft.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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: 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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	11.946	6.215	72.310	6.468	78.778	3.792	2.976	2.970	3.024	-	109.701
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	11.946	6.215	72.310	6.468	78.778	3.792	2.976	2.970	3.024	-	109.701
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	11.946	6.215	72.310	6.468	78.778	3.792	2.976	2.970	3.024	-	109.701

(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:

FY15 funding totals include \$1.734 million in Overseas Contingency Operations.

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, 0402834F, 0502834F, 0502844F, 0702831F.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$70 million is required to address emergency warfighting readiness requirements. Procure vehicles integral to the support of weapons platforms, installation maintenance, emergency services, base security, and warfighter operations. Procure vehicles used to establish, repair and protect operating locations and to maintain and repair runways, taxiways and ramps. Procure vehicles to support the deployment and employment of forces, cargo movement, weapons loading, and fueling of aircraft.

Justification:

FY17 funding procures, but is not limited to, 9 vehicles in support of installation and unit mission requirements for Air Force Personnel.

FY17 OCO funding procures, but is not limited to, 38 vehicles in support of Overseas contingency operations.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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: 826210 / Runway Snow Remov & Cleaning Equip
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$40 million is required to address emergency warfighting readiness requirements. Procure vehicles integral to the support of weapons platforms, installation maintenance, emergency services, base security, and warfighter operations. Procure vehicles used to establish, repair and protect operating locations and to maintain and repair runways, taxiways and ramps. Procure vehicles to support the deployment and employment of forces, cargo movement, weapons loading, and fueling of aircraft.</p>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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 / Items Less Than \$5 Million
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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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	57.069	87.781	171.004	9.271	180.275	60.982	60.636	61.029	62.076	-	569.848
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	57.069	87.781	171.004	9.271	180.275	60.982	60.636	61.029	62.076	-	569.848
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	57.069	87.781	171.004	9.271	180.275	60.982	60.636	61.029	62.076	-	569.848

(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:

FY15 funding totals include \$22.0 million appropriated for Overseas Contingency Operations.

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, 0208028F, 0401221F, 0502834F, 0502844F, 0702831F.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$124.136 million PE 72831F is required to address emergency warfighting readiness requirements. Procure vehicles integral to the support of weapons platforms, installation maintenance, emergency services, base security, and warfighter operations. Procure vehicles used to establish, repair and protect operating locations and to maintain and repair runways, taxiways and ramps. Procure vehicles to support the deployment and employment of forces, cargo movement, weapons loading, and fueling of aircraft

Justification:

FY17 funding procures, but is not limited to 252 vehicles in support of installation and unit mission requirements for Air Force personnel.

FY17 OCO funding procures, but is not limited to 77 vehicles in support of Overseas Contingency Operations.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$124.136 million PE 72831F is required to address emergency warfighting readiness requirements. Procure vehicles integral to the support of weapons platforms, installation maintenance, emergency services, base security, and warfighter operations. Procure vehicles used to establish, repair and protect operating locations and to maintain and repair runways, taxiways and ramps. Procure vehicles to support the deployment and employment of forces, cargo movement, weapons loading, and fueling of aircraft.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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 / Items Less Than \$5 Million
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		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 2017

Appropriation / Budget Activity / Budget Sub Activity: 8080F: 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
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0207448F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	91.987	139.244	80.359	0.000	80.359	93.613	86.474	70.740	72.138	-	634.555
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	91.987	139.244	80.359	0.000	80.359	93.613	86.474	70.740	72.138	-	634.555
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	91.987	139.244	80.359	0.000	80.359	93.613	86.474	70.740	72.138	-	634.555

(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:

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 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS

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)

This program funds procurement of PUBLIC KEY INFRASTRUCTURE (PKI). PKI provides identity management (IDM) services to support warfighter requirements. 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-

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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		
<p>repudiation of those transactions. PKI is one of many security solutions used to protect information and provide attributes to enable access to critical resources in the Global Information Grid (GIG) and is used concurrently with other solutions. Funding supports several different requirement areas to procure infrastructure equipment for the field in support of Secret Internet Protocol Routed Network (SIPRNET), PKI, and Evolutionary PKI End User Equipment.</p> <p>PE 0303140F INFORMATION SYSTEMS SECURITY PROGRAM:</p> <p>This program funds procurement of Communications Security (COMSEC) equipment, ancillary encryption/decryption devices, and related equipment to enable the secure transport of information. 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. 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 cede information that could be used against the United States in a public forum. 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 space, 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.</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>Funding for this exhibit contained in PE 0207448F; PE 0208088F; PE 0303135F; PE 0303140F; PE 0305251F.</p> <p>PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS:</p> <p>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$8.0 million is required to address emergency warfighting requirements. Funds are required to increase cyber resiliency of AF weapon systems; Accelerates the development of cyber squadron initiative tools that will be used to defend fielded weapon systems. These funds will enable deployment of tools to the Cyber Mission Defense Teams 1 to 2 years early. Specifically funds will procure 32 Mission Defense Team (MDT) Toolkits for the Cyber Squadron Initiative's (CSI) FY17 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 the provides several critical functions: 1) Protect and Prevent - Establish Baseline, ID Network Threats/Vulnerabilities, Implement Network Protection Measures and Utilize SA 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 & Capability, Analyze, Report, and Coordinate. 4) Recovery - Conclude Contingency Response, Validate Cybersecurity/Compliance, and Return to the Baseline. 5) Tactical & Operational C2. The Cyberspace Vulnerability Assessment/Hunter (CVA/H) Program Management Office (PMO) will establish teams to procure and field the Toolkits. Each Toolkit cost \$250,000 and each of the 32 Pathfinder Units require a Toolkit in FY17, thus a total requirement of \$8.0 million.</p>		
Justification: PE 0207448F C2ISR TACTICAL DATA LINK		

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<p>1. LINK-16: The funding is required to ensure the platforms are upgraded in time to meet the 2020 FAA mandate for frequency remapping. The radios will include new Crypto Modernization required by NSA to address new re-keying capabilities. Not receiving the funds on time would cause delays and interoperability issues. These platforms must receive the terminal on time as mandated by the FAA/DoD regulation CJC SI 6510.02E and the NSA, as of 1 APR 14. Funding will be executed in BPAC 834010.</p> <p>PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS</p> <p>1. COMPUTER SECURITY ASSISTANCE PROGRAM (CSAP) COUNTERMEASURES: FY17 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 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: FY17 funding provides equipment and modification to the AF Cyber Defense (ACD) weapon systems to increase weapon system utility.</p> <p>3. CYBERSPACE VULNERABILITY ASSESSMENT /HUNTER: FY17 funding provides a full level and an initial level of CVA /Hunter equipment to 12 active duty Cyber Protection Teams and 6 Air National Guard (ANG) CPT units.</p> <p>4. CYBER DEFENSE ANALYSIS: FY17 funding provides equipment for three RF Monitor Systems (Digital Receiver Technology) with extended warranty.</p> <p>PE 0303135F PUBLIC KEY INFRASTRUCTURE (PKI):</p> <p>1. EVOLUTIONARY PKI END USER EQUIPMENT: 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.</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 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. FY17 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</p>		

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Line Item MDAP/MAIS Code: N/A		
<p>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 funding moved to APPN 3021 Space Procurement. FY16 funding provides 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 funding moved to APPN 3021 Space Procurement. FY16 funding provides 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&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 (HAIPE) 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 to comply with NSA's Advance Cryptographic Capabilities (ACC) directives. The program supports space, 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." FY17 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 HAIPE Interoperability Specification (HAIPE IS) as well as Internet Protocol Version 6 capability that will improve security and expand the bandwidth of USAF secure Internet Protocol networks.</p> <p>b. LINK ENCRYPTION FAMILY (LEF): FY17 funds provide for the replacement of the legacy LEF with new more secure crypto modernization compliant LEF devices . The LEF provide 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. FY17 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, and ensured Global Information Grid-compatibility. The Global Information Grid (GIG)</p>		

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<p>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, miniaturized crypto for small unmanned systems, and all future satellite control systems and mission data downlinks. Current programs will replace/upgrade over 30,000 devices out of the Air Force's 245,000+ crypto devices and proved over 100,000 new devices where none were previously available. Other potential 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. FY17 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 will conclude in FY15 for the KIV-78 and 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-77 DEVICES: The FY17 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>(2) KIV-78 DEVICES: The FY16 funding procures 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>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). FY17 funding procures integration of devices with KMI.</p> <p>c. VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM): The VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) program 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 (NC2) and other Top Secret and Secret networks (Devices: KY-57/58,KY-99/100 and USC-43). The VACM Embedded Project upgrades the 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 Baseband Input/Output (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 beginning in FY16.</p> <p>(2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) INTERIM CONTRACTOR SUPPORT (ICS): Logistics is required for the initial period of operation for the VACM device. For the purposes of this contract, ICS includes material management, supply distribution, repair functions for the VACM device, technical manuals revisions and software management and maintenance.</p> <p>(3) 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>		

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d. Missile Electronic Encryption Device (MEED): The MEED Modification will procure the modified 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.

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.

FY17 Plans:

- (1) Distributed Common Ground System (DCGS) Crypto: No action planned
- (2) Classified Data at Rest (CDAR) Crypto: Continued procurement of legacy encryption solutions for application to unprotected legacy Air Force platforms.
- (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.
- (4) Integrated Data Denial (IDD) Crypto: No action planned
- (5) Advanced Crypto Capabilities (ACC): Planned modification activity in support of KG-245A.

f. PROGRAM MANAGEMENT ADMINISTRATION (PMA): Program management administration costs support management with engineering and technical expertise in support of development and procurement activities.

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: FY17 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: Funding procured 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: FY17 funding procures AN/PYQ-10 (C) SKL units which are controlled cryptographic items that are mission essential to help the AF 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

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<p>procures KMI connectivity, key management and cryptographic unique/certified products 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.</p> <p>a. KMI Hardware: FY17 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. KMI Last Mile production effort begins to procure Portable Key Loaders (PKLs) and Tactical Key Loaders (TKLs) to replace fielded legacy Simple Key Loaders (SKLs) and Really Simple Key Loaders(RASKL) in the key management enterprise.</p> <p>b. KMI Last Mile Production: Funding procures competitive source selection activities, production planning, annual production lots of Portable Key Loader devices, training and hardware/software support capabilities.</p> <p>PE 0305251F CYBERSPACE OPS FORCES AND FORCE SUPPORT CYBERSPACE VULNERABILITY ASSESSMENT (CVA) TRAINING SUITE: No funding in FY17.</p> <p>PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS:</p> <p>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$8.0 million is required to address emergency warfighting requirements. Funds are required to increase cyber resiliency of AF weapon systems; Accelerates the development of cyber squadron initiative tools that will be used to defend fielded weapon systems. These funds will enable deployment of tools to the Cyber Mission Defense Teams 1 to 2 years early. Specifically funds will procure 32 Mission Defense Team (MDT) Toolkits for the Cyber Squadron Initiative's (CSI) FY17 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 the provides several critical functions: 1) Protect and Prevent - Establish Baseline, ID Network Threats/Vulnerabilities, Implement Network Protection Measures and Utilize SA 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 & Capability, Analyze, Report, and Coordinate. 4) Recovery - Conclude Contingency Response, Validate Cybersecurity/Compliance, and Return to the Baseline. 5) Tactical & Operational C2. The Cyberspace Vulnerability Assessment/Hunter (CVA/H) Program Management Office (PMO) will establish teams to procure and field the Toolkits. Each Toolkit cost \$250,000 and each of the 32 Pathfinder Units require a Toolkit in FY17, thus a total requirement of \$8.0 million.</p>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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
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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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	30.588	23.912	28.823	79.203	42.650	121.853	62.739	59.049	56.533	47.198	-	430.695
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	30.588	23.912	28.823	79.203	42.650	121.853	62.739	59.049	56.533	47.198	-	430.695
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	30.588	23.912	28.823	79.203	42.650	121.853	62.739	59.049	56.533	47.198	-	430.695

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

Initial Spares (<i>\$ in Millions</i>)	-	3.306	1.011	3.406	-	3.406	3.048	0.930	0.947	3.113	-	15.761
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 USAF-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 system 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 operations 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. ATCALs also includes procurement of a new Deployable Instrument Landing System (D-ILS) which will replace the 1970s era mobile precision approach radar. 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.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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		
<p>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.</p> <p>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 for contingency operations and humanitarian or disaster relief operations. D-ILS will replace the current Air Force mobile Precision Approach Radar (PAR) system used to support operations at deployed locations. These systems were procured in the 1970s, are manpower intensive, and logistically unsupportable. On average, only 18% (three of 17 systems) of the mobile PAR systems are operational on a daily basis. D-ILS will support increased operations in the area of responsibility, allow phase out of the currently obsolete legacy systems and provide interoperability with the Civil Reserve Air Fleet.</p> <p>4. Deployable Radar Approach Control (D-RAPCON): D-RAPCON will replace the 40 year old AN/MPN-14K and AN/TPN-19 Airport Surveillance Radar (ASR) and Operations Shelter (OPS) 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, no more than three of the existing 17 systems are deployable at any given time. The current AN/TPN-19 and AN/MPN-14K Operational Availability rates are 69% and 67% respectively versus the a 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 fixed base or deployable Instrument Landing System and a fixed or mobile control tower to provide a complete air traffic control capability. The D-RAPCON will support tactical military and worldwide humanitarian operations and also provide a capability to 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 to 200 nm. Due to diminishing manufacturing sources, life of type purchases will be required each year. The D-RAPCON Capability Development Document was approved by the Air Force Requirements Oversight Council on 8 Feb 11.</p> <p>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$23.4 million is required to address emergency warfighting readiness requirements. The Air Traffic Control (ATC) ground-to-air Very High Frequency (VHF) and Ultra High Frequency (UHF) radios are 30 years old and difficult to maintain. The Digital ATC Radio Replacement Program will replace these radios with state-of-the-art systems that will include a remote maintenance capability and 8.33kHz channel spacing which is a mandatory requirement in Europe by 2018. Approximately 5,200 radios will be procured to replace Air Force ATC at all CONUS and OCONUS locations. The radios are being procured using FAA firm fixed price contracts with production options through FY22. Requested funds procure tunable transceiver radios and control units. The tunable radios provide the air traffic controllers a backup capability that can be tuned remotely in the event of radio failure of the single frequency radio. Each control unit controls two transceivers.</p> <p>Funding for this exhibit is contained in Program Element (PE) 0305114F.</p>		
Justification:		
<p>1. DIGITAL AIR TRAFFIC CONTROL (ATC) RADIO REPLACEMENT: FY17 funds procure 172 systems (172 AD/0 ANG/0 AFR).</p> <p>2. ATCALs Fixed Base (FB) Navigational Aids (NAVAIDS) Family of Systems (FoS): FY17 funds procure 23 TACANs (23 AD/0 ANG/0 AFR) and 7 VORTACs (7 AD/0 ANG/0 AFR).</p> <p>3. DEPLOYABLE INSTRUMENT LANDING SYSTEM (D-ILS): FY17 base funds procure 2 systems (2 AD/0 ANG/0 AFR); FY17 OCO funds procure 10 systems (2 AD/8 ANG/0 AFR).</p> <p>4. DEPLOYABLE RADAR APPROACH CONTROL (D-RAPCON): FY17 funds procure 2 systems (2 AD/0 ANG/0 AFR).</p> <p>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$23.4 million is required to address emergency warfighting readiness requirements. The Air Traffic Control (ATC) ground-to-air Very High Frequency (VHF) and Ultra High Frequency (UHF) radios are 30 years old and difficult to maintain. The Digital ATC Radio Replacement Program will replace these radios with state-of-the-art systems that will include a remote maintenance capability and 8.33kHz channel spacing which is a mandatory requirement in Europe by 2018. Approximately 5,200 radios will be procured to replace Air Force ATC at all CONUS and OCONUS locations. The radios are being procured using FAA firm fixed price contracts with production options through FY22. Requested funds procure tunable transceiver radios and control units. The tunable radios provide the air traffic controllers a backup capability that can be tuned remotely in the event of radio failure of the single frequency radio. Each control unit controls two transceivers.</p>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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
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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: 0603287F, 0604287F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	42.323	39.925	103.269	244.060	83.500	327.560	69.052	87.014	83.120	57.345	-	809.608
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	42.323	39.925	103.269	244.060	83.500	327.560	69.052	87.014	83.120	57.345	-	809.608
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	42.323	39.925	103.269	244.060	83.500	327.560	69.052	87.014	83.120	57.345	-	809.608

(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-Launched Cruise Missile (ALCM) PE 0101122F - 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.

Minuteman Squadrons PE 0101213F - 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.

Air Base Ground Defense PE 0207588F - P-40A
 Air Force Tactical Security Equipment provides 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.

Antiterrorism PE 0208047F - P-40A
 PE 0208047F: ANTI-TERRORISM
 Tactical and Expeditionary Security Systems: FY16 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.

General Skill Training PE 0804731F - P-40A

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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: N/A	Other Related Program Elements: 0603287F, 0604287F
Line Item MDAP/MAIS Code: N/A		
<p>BASIC MILITARY TRAINING (BMT) SURVEILLANCE SECURITY SYSTEM: Due to allegations of misconduct by Military Training Instructors (MTIs) at BMT, AETC/CC directed an investigation to identify issues that place Airmen at risk in their training environment. This investigation was led by AF/CVS and revealed weaknesses in existing detection measures. SECAF/CSAF support findings and actions AETC is taking to prevent misconduct from reoccurring.</p> <p>The purpose of the camera surveillance effort is to deter, monitor, and act upon the misconduct of Basic Trainees and/or Military Training Instructors. The goal is the surveillance of all common areas throughout all BMT facilities to include Airman Training Complexes (ATC) and Dining/Classroom Facilities (DCF). The surveillance system monitors personnel within all training facilities and provides a central storage solution expandable to maintain three years of video data.</p> <p>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$70.5 million PE 27589F is required to address emergency readiness requirements. Counter Small Unmanned Aerial System JEON (Cs-UAS) PE 0207589F - Supports STRATCOM JEON to protect national assets from the evolution of small unmanned aerial systems based on low cost, extensive proliferation and availability in the commercial market place.</p> <p>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$76 million PE 27589F is required to address emergency warfighter readiness requirements. Counter Small Unmanned Aerial System (Cs-UAS) Joint Urgent Operational Need (JUON) - Supports EUCOM JUON to protect specific strategic assets in overseas theaters of operation. This is Overseas Contingency Operations (OCO) funding.</p> <p>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$15 million PE 27588F is required to address emergency readiness requirements. Airbase Resiliency PE 0207588F - Supports increased investments in Air Base Defense, Base Physical Security Systems, Antiterrorism Vulnerability Mitigation, Joint Counter Remove Control Improvised Explosive Devices Electronic Warfare (JCREW) systems, Water and Fuel Expedient Repair Systems, (WaFERS), Weapon System Cyber Resiliency-Installation Control and various sub-programs.</p> <p>"Fiscal Year (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.</p>		
<p>Justification: Air-Launched Cruise Missile (ALCM) PE 0101122F - P-40A PE 0101122F - AIR LAUNCHED CRUISE MISSILE (ALCM) SECURITY SYSTEMS: FY17 funding procures commodity security equipment including intrusion detection sensors, alarm annunciators, and surveillance systems required for nuclear warhead storage locations.</p> <p>Minuteman Squadrons PE 0101213F - 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>Air Base Ground Defense PE 0207588F - P-40A Air Force Tactical Security Equipment: FY17 funding will provide fixed-site Intrusion Detection Systems (IDS) and Biometric Identification Systems (BIS) for Protection Levels (PL) 1/2/3/4, as well as automated tactical/expeditionary equipment.</p> <p>Antiterrorism PE 0208047F - P-40A PE 0208047F: ANTI-TERRORISM Tactical and Expeditionary Security Systems: FY17 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>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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: N/A	Other Related Program Elements: 0603287F, 0604287F
Line Item MDAP/MAIS Code: N/A		
General Skill Training PE 0804731F - P-40A No FY17 funding requested.		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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
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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: 0207422F, 0207444F, 0503133F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	50.487	137.205	144.036	8.100	152.136	95.154	115.275	81.875	83.347	-	715.479
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	50.487	137.205	144.036	8.100	152.136	95.154	115.275	81.875	83.347	-	715.479
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	50.487	137.205	144.036	8.100	152.136	95.154	115.275	81.875	83.347	-	715.479

(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 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.

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-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

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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		
<p>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>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 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. 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 is employed to provide and support 22 Large Communications Package missions at Combat Communication squadrons, 27 Medium Communications Package missions at Combat Communications and Global Mobility Readiness squadrons and 39 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 modernization efforts to maintain full operational capability. Modernization efforts focus on addressing Diminishing Manufacturing Sources (DMS) 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 item 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 DOD security mandates/directives and cryptographic modernization standards. The program has three components:</p> <p>a. 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 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>FY17 Funding includes \$3.6M for Overseas Contingency Operations.</p>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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		

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

Advanced Communications Systems PE 0207423F - P-5
PE 0207423F JOINT TACTICAL RADIO SYSTEMS/JTRS

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.

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.

The purpose of the TACP-Modernization program is to upgrade TACP voice, data and video communications capabilities, upgrade targeting capabilities, and improve TACP 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.

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.

The TACP-M program provides and modernizes capabilities in the following major areas: (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. 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.

The FY 2017 funding request was reduced by \$19.4M to account for the availability of prior year execution balances.

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

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

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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		
<p>(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 of enhanced communication systems and equipment essential for ST combat controllers, pararescue, combat weather operators, and tactical air control parties to perform their mission. 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. 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>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$34.2 million is required to address emergency warfighting readiness requirements. Funds 85 Battlefield Air Operations (BAO) kits. Decreases the risk of fratricide and lowers the weight of the Battlefield Airmen's equipment by 30%. Also funds communication equipment, situational awareness equipment, personal protective equipment, night vision devices, weapons and weapons accessories, training devices, and explosive detection equipment.</p> <p>Combat Rescue - Pararescue (AFR) PE 0503133F - P-40A PE 0503133F: COMBAT RESCUE - PARARESCUE (AFR)</p> <p>Tactical communications and electrical equipment in support of special operations forces. FY16 funding includes \$4.065M for Overseas Contingency Operations.</p> <p>Justification: Tactical Airborne Control Systems PE 0207418F - P-5 TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT: FY17 funding procures Tactical Air Control Party Fixed, Portable, and Command and Control C2) simulators for training special operations and conventional Joint Terminal Attack Controllers (JTAC).</p> <p>Deployable C3 Systems PE 0207422F - P-40A PE 0207422F DEPLOYABLE COMMAND, CONTROL, and COMMUNICATIONS (C3) SYSTEMS</p> <p>SPOKE SATELLITE TERMINALS: FY17 funding will procure information assurance driven mandated upgrades as required.</p> <p>INTEGRATED COMMUNICATIONS ACCESS PACKAGE (ICAP): FY17 funding will procure a technical solution based on user functional requirements for a standardized Small Communication Package (SCP) as Directed by Program Action Directive (PAD) 12-07 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, Wireless Distribution Module.</p> <p>NETWORK CONTROL CENTER-DEPLOYED (NCC-D): FY17 funding will procure software that has reached end-of-life and is no longer supportable. Including mandated upgrades as required.</p> <p>FY17 funding includes \$3.6M for Overseas Contingency Operations.</p> <p>PE 020588F: Security Forces (SF) Tactical Communication Radios - P40A 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>		

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Line Item MDAP/MAIS Code: N/A		
Advanced Communications Systems PE 0207423F - P-5 PE 0207423F JOINT TACTICAL RADIO SYSTEM/JTRS:		
<p>FY17 Funds will be used to purchase 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-CCI Radios.</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. FY17 funding will procure the following:</p> <ol style="list-style-type: none"> 1. TACTICAL OPERATION CENTER (TOC) SYSTEMS: TACP TOC systems include the fielded ASOC Gateway and Gateway Light systems, the transit case mounted, transportable Dismounted Communication Package (DCP), and TOC computer systems. In the near future, it will also include the TACP Transportable Gateway (TTG). 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 be mounted in transit cases, include a multi-band radio for BLOS or 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. 2. VEHICLE-MOUNTED SYSTEMS: TACP vehicle systems include the GRC-259 system mounted in Stryker armored vehicles, interim 2-channel mobile Voice Communications Packages (VCPs) mounted in new M1165 High Mobility Multi-Wheeled Vehicles (HMMWVs), and the Mobile Communications Systems (MCS) planned for TACP M1145 HMMWVs. In FY16, the TACP-M program will award 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. Following delivery of the MCS, the TACP-M program intends to upgrade or procure new multi-channel data communications systems for M1165 HMMVs, 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 HMMWVs vehicles and will be adopted by Air Force TACPs as well. Specific requirements and acquisition strategies for those systems will be developed after contract award for the M1145 MCS. In addition, the TACP-M program office expects to modify Stryker communications systems to provide a remote control capability required to use the vehicle-mounted GRC-259 Stryker communications system to conduct TACP communications from a Brigade tactical operations center. 3. DISMOUNTED EQUIPMENT (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. Equipment includes, but is 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 Line-of-Sight (LOS) and Beyond-Line-of-Sight (BLOS) data communications with C2 nodes, other TACPs, and attack aircraft. Kit quantities procured in FY17 may change depending on final unit prices, and interim support services may be funded as part of this procurement effort; Handheld Laser Target Designators (LTDs) and Handheld Laser Rangefinders (LRFs) - Dismounted TACPs/JTACs require small, lightweight LTDs and LRF utilizing emerging, off-the-shelf technology which are suitable for use by TACPs and provide a smaller, lighter form-factor over the current systems; 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 include, but is not limited to, batteries, antennas, GPS receivers, storage devices, cases, and other components that facilitate the operation and/or human factor impacts of the dismounted TACP. 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 		

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Line Item MDAP/MAIS Code: N/A		
<p>support of ground maneuver forces. FY17 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.</p> <p>The TACP-M program will also use FY17 funding to support Interim Contractor Support (ICS) for equipment such as, but not limited to, Operational Control Systems (OCS) and targeting devices prior to transitioning to long-term sustainment.</p> <p>Special Tactics / Combat Control PE 0408011F - P-5 PE 0408011F BATTLEFIELD AIRMEN OPERATIONS (BAO) Kit</p> <p>BATTLEFIELD AIRMEN OPERATIONS (BAO) Kit: FY17 funding in the amount of \$15.133 million will procure, test, sustain, 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, items included but not limited to training, initial spares, repairs and returns, and other equipment.</p> <p>a. HUMAN MACHINE INTERFACE (HMI): This FY17 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.</p> <p>Web-based Geographic Information System (GIS) management tool, used to store, display, update, and report operational information on sensitive global airfields and Assault Zones (AZ) while incorporating approval processes designed to support rapid Global Mobility missions for the USG. Talon Point consists of three main system functions: A fully relational database with associated storage, a visual GIS tool, and a management tool/web application.</p> <p>b. OPERATIONAL CONTROL SYSTEM (BAO KIT): FY17 funding will procure OCS units which 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 and the ability to perform digitally-aided Close Air Support targeting for all Battlefield Airmen and Special Operations Forces.</p> <p>c. LINE OF SIGHT (LOS): FY17 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.</p> <p>Items requested in FY17 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 FY17 funding requested.</p>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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
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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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	95.759	82.410	169.715	0.000	169.715	111.780	62.315	46.097	49.178	-	617.254
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	95.759	82.410	169.715	0.000	169.715	111.780	62.315	46.097	49.178	-	617.254
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	95.759	82.410	169.715	0.000	169.715	111.780	62.315	46.097	49.178	-	617.254

(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:

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.

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.

Service Support to Other Core Missions - STRATCOM (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.

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.

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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
Line Item MDAP/MAIS Code: N/A		
<p>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. This is a continuing requirement.</p> <p>AF Network Ops and Command Comms PE 0207425F - P-40A AF Network Operations (AFNETOPS): AFNETOPS with Air Force Space Command (AFSPC) oversight provides the AF with operations and security functions, central management of core Information Technology (IT) services, enterprise trouble desk support, and network control.</p> <p>Engineering and Installation - Air Force PE 0207436F - P-40A 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.</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. This is a continuing requirement. 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 throughout PACAF significantly raises the importance of a robust communications infrastructure to ensure war fighter access to secure voice, data, and video systems. This is a continuing requirement. FY15 funding totals include \$1.970M for Overseas Contingency Operations (OCO). 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. This is a continuing requirement. 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. This is a continuing requirement. FY16 funding totals include \$15.400M for Overseas Contingency Operations (OCO).</p> <p>Long-Haul Communications - DCS PE 0303126F - P-40A USAFE Technical Control Facility Program Equipment: This USAFE 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 to meet specifications required to connect Defense Information Systems Agency (DISA) long haul circuit equipment to base facilities. This is a continuing requirement.</p> <p>Theater Nuclear Weapon Storage & Security System PE 0305155F - P-40A Theater Nuclear Weapon Storage and Security System (WS3) Communications Infrastructure Equipment: Funds support the procurement of communications equipment and buried cable and alarm equipment. These efforts directly impact sustainment efforts and crypto upgrades for the aging WS3 system installed at multiple nuclear capable sites.</p> <p>Information Technology Services Management - Other PE 0305550F - P-40A</p>		

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Line Item MDAP/MAIS Code: N/A		
<p>a. Air Force District of Washington (AFDW) Base Communications Network Equipment: Funds support the procurement of network infrastructure replacements, and support of 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>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 base communications infrastructure at AFRC, an AF MAJCOM consisting of a HQ, three Numbered Air Forces (NAFs), 45 flying wings/groups and more than 40 Geographically Separated Units (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 ANG Base Communications Infrastructure Equipment: Funds provide for life cycle support of base communications infrastructure at 89 ANG flying wings and more than 106 GSUs, including the ANG Network Operations and Security Center (NOSC). Funds support ANG-wide base communications infrastructure projects consistent with AF IT standards and for compatibility of the ANG enterprise with the AF and the Department of Defense (DoD) centralized networks. 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 supports command wide and base approved, MAJCOM validated communications requirements as identified in base communications blueprints. Funding ensures life cycle support to manage legacy Time Division Multiplex (TDM) telephone switches and communications infrastructure due to end of shelf life and end of parts support. This funding provides the ability to migrate to a Voice over IP (VoIP) Assured Services Local Area Network (ASLAN) solution improving critical C2 and keeps base communications infrastructure on pace with current technological developments. The program supports procurement of LMR trunking systems at AFMC locations in direct support for emergency responders participating in base, local, civil and federal disaster response as well as Battle Staff and Crisis Action Team (CAT) operations. These support the Agile Combat Support (ACS), logistical, command and control mission, as well as first responder services at 9 AFMC bases supporting 100,000 personnel.</p> <p>In response to the Ft Hood incident and in accordance with DoD instruction 6055.17, DoD policy mandates every installation implement a Mass Notification System (MNS) to notify and direct personnel and populace in the event of major accidents, natural disasters, wartime or terrorist attacks, and other contingencies. This system is a critical aspect to alert, warn and provide instructions to the base population of current and predicted threats. This is a continuing requirement.</p> <p>Information Technology Services Management - Training PE 0808550F - P-40A</p>		

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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
Line Item MDAP/MAIS Code: N/A		
<p>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 support the 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.</p> <p>AF Offensive Cyberspace Operations - PE 28087F - P-40A Procures student mission training systems (hardware, software, infrastructure, and facility modifications)supporting Information & Cyber Operations training needs of approximately 700 students per year.</p> <p>FY14 RMD 700A created the Cyber Mission Force (CMF) and added approximately 1,700 cyber weapon system operators. 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 CMF student throughput. This also enables the 24 AF to meet USCYBERCOM directed IOC/FOC timelines by FY18.</p> <p>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$47.5 million is required to update the INWS system including the giant voice, indoor alerts, telephone call/text alerts and software alert systems for computer alerts. Improving mass warning and alert notification capabilities (+\$40 million) ANG is unable to perform regionalized or base level unified communications. Lifecycle of existing voice equipment is end of life. Issues with utilizing VoIP due to outdated voice switches and firmware associated with the switches. (+\$7.5 million). PE 0508550F</p> <p>"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$13 million is required to establish Cyber and Cmd Comms; establishes network protection; replaces vulnerability intrusion detection system.</p>		
<p>Justification: MINUTEMAN Communications PE 0101323F - P-40A No FY17 funding requested.</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 FY17 funding requested.</p> <p>Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities) PE 0208059F - P-40A USCYBERCOM Communications Infrastructure: FY17 funding will continue procurement of communications equipment (e.g., servers, routers, LANs, End Building Node (EBN) hardware) that support ongoing USCYBERCOM activities. In addition, funds will acquire and install communications infrastructure for the "Fit-Out" of the USCYBERCOM Joint Operations Center. Specifically, the Fit-Out includes procurement/installation/customization of classified and non-classified audio video multimedia equipment; Defense Red Switch Network (DRSN), information technology cryptologic equipment and video-teleconferencing systems, and mission system backbone equipment. The procurement of Fit-Out equipment aligns with the MILCON schedule.</p> <p>Communications and Information Technology PE 0308611F - P-40A AFSPC Communications Infrastructure Equipment: FY17 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 unified capabilities and the joint enterprise.</p> <p>F-22A Squadrons PE 0207138F - P-40A F-22 Communications Infrastructure Equipment: FY17 funds will be used to procure communications infrastructure equipment in support of F-22 aircraft.</p> <p>AF Network Ops and Command Comms PE 0207425F - P-40A AF Network Operations (AFNETOPS): No FY17 funding requested.</p> <p>Engineering and Installation - Air Force PE 0207436F - P-40A</p>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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		
<p>AFSPC Lead Command Base Communications Infrastructure: No FY17 funding requested.</p> <p>Information Technology Services Management - Tactical Air Forces PE 0208550F - P-40A</p> <p>a. AFSOC Base Communications Infrastructure Equipment: FY17 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.</p> <p>b. PACAF Base Communications Infrastructure Equipment: FY17 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 flexible basing strategy for the Pacific region.</p> <p>c. ACC Base Communications Infrastructure Equipment: FY17 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.</p> <p>d. USAFE-AFAFRICA Base Communications Infrastructure Equipment: FY17 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, FY17 funds procure communications infrastructure to support the European Infrastructure Consolidation (EIC) program. EIC is an OSD-directed process to restructure basing of forces within the European Command (EUCOM) Area of Responsibility (AOR).</p> <p>Long-Haul Communications - DCS PE 0303126F - P-40A USAFE Technical Control Facility Program Equipment: No FY17 funding requested.</p> <p>Theater Nuclear Weapon Storage & Security System PE 0305155F - P-40A Theater Nuclear Weapon Storage and Security System (WS3) Communications Infrastructure Equipment: FY17 funding supports the procurement of communications equipment and buried cable and alarm equipment. This equipment procurement supports the NATO nuclear deterrence mission in Europe.</p> <p>Information Technology Services Management - Other PE 0305550F - P-40A</p> <p>a. Air Force District Washington (AFDW) Base Communications Network Equipment: FY17 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).</p> <p>b. AFSPC Base Communications Infrastructure Equipment: No FY17 funding requested.</p> <p>Information Technology Services Management - Mobility Air Forces PE 0408550F - P-40A Air Force District Washington (AFDW) Base Communications Infrastructure Equipment: FY17 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: FY17 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</p>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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		
<p>ANG Base Communications Infrastructure Equipment: FY17 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) Network Equipment: FY17 funds support command wide and base approved, MAJCOM validated communications requirements providing 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.</p> <p>Information Technology Services Management - Training PE 0808550F - P-40A Air Education and Training Command (AETC) Base Communications Infrastructure Equipment: FY17 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-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 2017

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip	P-1 Line Item Number / Title: 842990 / Items Less Than \$5 Million
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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: 0604706F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.973	31.209	73.030	71.016	0.000	71.016	52.682	48.280	49.326	46.336	-	376.852
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4.973	31.209	73.030	71.016	0.000	71.016	52.682	48.280	49.326	46.336	-	376.852
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.973	31.209	73.030	71.016	0.000	71.016	52.682	48.280	49.326	46.336	-	376.852

(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, developed in Program Element (PE) 0604706F, Life Support Systems, 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 protective gear, laser eye protection, personnel locator beacons, nuclear flash blindness devices, personnel parachutes, ejection seats/equipment, survival radio test sets, life rafts, life preservers, anti-exposure coveralls, 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 rescue equipment, information management systems, rescue craft 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. 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. 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. 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.

Guardian Angel Enhanced Night Vision Systems: Continued Procurement of Night Vision solutions that improve personnel recovery night visions 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. 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. All funding and tasks from FY17-FY21 have been moved from Project 842140 Night Vision Goggles to Project 842990, Items Less than \$5 Million.

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.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 2017
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip		P-1 Line Item Number / Title: 842990 / Items Less Than \$5 Million
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604706F
Line Item MDAP/MAIS Code: N/A		

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, 0202834F, and 0207588F.

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, personnel and technical recovery equipment, visual augmentation, 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.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$16.6 million PE 53119F is required to address emergency warfighting readiness requirements. 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.

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.

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.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 2017
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety & Rescue Equip		P-1 Line Item Number / Title: 842990 / Items Less Than \$5 Million
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604706F
Line Item MDAP/MAIS Code: N/A		
<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> <p>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.&lt;/span&gt;</p> <p>Funding for this exhibit contained in PEs 0207227F, 0207433F, 0408011F, 0503113F and 0702833F.</p> <p>Projected allocations for component requirements are subject to total force demands and priorities.</p>		
Justification: FY17 procurement dollars procure Aircrew Flight Equipment, Life Support Systems, and Guardian Angel equipment. <p>The FY2016 OCO funding total of \$3.407 million 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.</p>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 2017

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq	P-1 Line Item Number / Title: 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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	7.670	7.249	146.880	0.000	146.880	8.140	8.222	8.371	8.522	-	195.054
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	7.670	7.249	146.880	0.000	146.880	8.140	8.222	8.371	8.522	-	195.054
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	7.670	7.249	146.880	0.000	146.880	8.140	8.222	8.371	8.522	-	195.054

(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 Materiel Handling Equipment line provides funding for Mechanized Materiel 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 materiel 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; 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, baggage, and freight to reduce pipeline time and to provide Air Force capability to respond to crises and threats whenever they occur in the world.

The FY2016 funding request was reduced by \$0.077 million to account for the availability of prior execution balances.

Program elements associated with this P-1 Line are 0202834F, 0702834F, 0802834F, 0402834F, 0502834F, 0502844F, 0207597F, and 0401221F.

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.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$7.344 million to replace/modernize Common Support Equipment, Automatic Test System items & vehicles that are past their useful life to ensure effective, reliable mission generation of aircraft, equipment and vehicles and safe operations and training.

Justification:

FY17 procurement funds MMHS/SAS equipment which 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

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 2017
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq		P-1 Line Item Number / Title: 843050 / Mechanized Material Handling Equip
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		
operations in supply, base level maintenance, and transportation facilities. Also provides critical support for mission readiness of F-16 realignment, and F-22, F-35, and KC-46A beddown of assets through the use of MMHS/SAS equipment.		
MMHE is to be purchased in the following quantities: 2 conveyors, 6 high density storage systems, 1 narrow aisle equipment replacement, 1 receiving, storage and distribution system, 19 storage aid systems.		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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
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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: 0205671F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	118.734	64.656	221.000	53.900	274.900	21.839	37.597	40.162	40.348	-	598.236
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	118.734	64.656	221.000	53.900	274.900	21.839	37.597	40.162	40.348	-	598.236
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	118.734	64.656	221.000	53.900	274.900	21.839	37.597	40.162	40.348	-	598.236

(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 Baseline Funding EOD: Program Elements Codes (PECs) associated with P-1 Line are PEC 0204424F (Explosive Ordnance Disposal Forces) for \$7.971M and PEC 0208028F Airfield Damage Repair (ADR) program for \$0.397M funding were zeroed out by an OSD Resource Management Decision (RMD) INV-001.

FY17 OCO Funding JCREW - 0205671F and the European Reassurance Initiative (ERI) for the Airfield Damage Repair (ADR)- 0208028F PECs associated with P-1 Line:

FY17 OCO funding of \$51.900M in PEC 0205671F will procure Joint Counter Radio-Controlled Improvised Explosive Device Electronic Warfare (JCREW) Mounted and Dismounted systems. JCREW systems are critical self-protection of Mine Resistant, Ambush Protected (MRAP) vehicle mounted, EOD dismounted and airbase Entry Control Point operations.

FY17 OCO funding of \$2.0M in PEC 0208028F will procure European Reassurance Initiative (ERI) for the Airfield Damage Repair (ADR) program. The funding provides civil engineers specialized airfield damage repair equipment to rapidly repair and recover airfields after attack. The time required to accomplish runway repairs is operationally unacceptable with the current Rapid Runway Repair capability. Current efforts under ADR are intended to bring the repair time into operational acceptable limits in support of COCOM post attach Air Tasking Orders.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$221 million is required for Airbase Resiliency investments in Air Base Defense, Base Physical Security Systems, Antiterrorism Vulnerability Mitigation, Joint Counter Remove Control Improvised Explosive Devices Electronic Warfare (JCREW) systems, Water and Fuel Expedient Repair Systems, (WaFERS), Weapon System Cyber Resiliency-Installation Control and various sub-programs.

Justification:

FY17 Baseline procurement dollars procures EOD Specialized Equipment and Airfield Damage Repair Kits.

FY17 PEC 0204424F Explosive Ordnance Disposal (EOD) forces and PEC 0208028F Airfield Damage Repair (ADR) program funding were zeroed out by an OSD Resource Management Decision (RMD) INV-001.

FY17 OCO funding:

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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		

FY17 OCO funding of \$51.900M in PEC 0205671F will procure Counter Radio-Controlled Improvised Explosive Device Electronic Warfare (JCREW) systems in the following quantities: 49 JCREW Dismounted systems and 218 JCREW Mounted systems. JCREW systems are critical self-protection for Mine Resistant Ambush Protected (MRAP) vehicle mounted, EOD dismounted and airbase Entry Control Point operations.

FY17 OCO funding of \$2.0M in PEC 0208028F funds the European Reassurance Initiative (ERI) for Airfield Damage Repair (ADR) program and will procure support equipment items for the Major Repair component of Air Field Damage Repair Training/Small Size 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 (10ft 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.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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: 845420 / Mobility 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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	300	-	-	-	-	-	-	-	-	-	-	300
Gross/Weapon System Cost (<i>\$ in Millions</i>)	59.312	64.934	62.250	43.128	0.000	43.128	8.390	9.523	9.693	9.867	-	267.097
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	59.312	64.934	62.250	43.128	0.000	43.128	8.390	9.523	9.693	9.867	-	267.097
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	59.312	64.934	62.250	43.128	0.000	43.128	8.390	9.523	9.693	9.867	-	267.097

(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>)	197,706.67	-	-	-	-	-	-	-	-	-	-	890,323.33

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, 49MMG, 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): 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.

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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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force		Date: March 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: 845420 / Mobility 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		
<p>Hygiene: Hygiene includes Shower, Shave and Latrine, 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>Training/Multi-Media Training - Provides BEAR and items for all training sites and funds for all required BEAR multi-media training requirements.</p> <p>Program element associated with this P-1 Line is: 0401135F.</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>Justification: FY17 procurement dollars in the amount of \$8.146M procures 18 Large Area Maintenance Shelters (LAMS), 4 9-2 Feeding Units, 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: Request for Additional Appropriations 2017 Air Force **Date:** March 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
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0305208F	Other Related Program Elements: 0305208F, 0305240F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	206.743	177.021	197.655	0.800	198.455	165.939	157.536	150.101	152.802	-	1,208.597
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	206.743	177.021	197.655	0.800	198.455	165.939	157.536	150.101	152.802	-	1,208.597
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	206.743	177.021	197.655	0.800	198.455	165.939	157.536	150.101	152.802	-	1,208.597

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

Initial Spares (<i>\$ in Millions</i>)	-	12.000	-	-	-	-	-	-	-	-	-	12.000
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 was previously managed by four primary efforts: Geospatial Intelligence-1, Systems Release-1 (SIGINT Intelligence), Net Comms-1 (Network/Comm Infrastructure), and Data Links-1. Beginning in FY16, to better align with ACC focus areas and associated capabilities, AF DCGS management has evolved into eight efforts consisting of: 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-1: The GEOINT Transformation effort rapidly integrates new capabilities and migrates GEOINT-specific applications & capabilities into the open architecture framework.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0305208F	Other Related Program Elements: 0305208F, 0305240F
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Line Item MDAP/MAIS Code: N/A

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.
4. SIGINT Transformation-1: 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-1: The Sensor Integration effort rapidly integrates AF, Joint, & Coalition Sensor data into DCGS Enterprise to ingest data, perform sensor planning, and Command & Control.
6. Multi-INT-1: 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-1: 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 FY17 appropriation is under \$5M in the budget year, system limitations prevent the P-3A from being displayed.

Other Program Funding Summary (\$ in Millions)/PE0305208F

Line Item	FY2015	FY2016	FY2017	FY2017	FY2017	FY2018	FY2019	FY2020	FY2021	Cost To	Total
RDT&E: BA07: Line Item			Base	OCO	Total					Complete	Cost
.	19.482	22.686	28.902	0.000	18.902	26.422	22.143	22.554	22.954	Continuing	Continuing

Detailed information on PE 0305240F, Support to DoD DCGS Enterprise remains classified and will be provided on a need-to-know basis.

Other Program Funding Summary (\$ in Millions)/PE0305240F

Line Item	FY2015	FY2016	FY2017	FY2017	FY2017	FY2018	FY2019	FY2020	FY2021	Cost To	Total
RDT&E: BA07: Line Item			Base	OCO	Total					Complete	Cost
.	17.115	28.336	23.084	0.000	23.084	26.273	26.768	27.266	27.749	Continuing	Continuing

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 Line Item # 846080 is contained in PEs 0305208F and 0305240F.

FY15 funding totals include \$0 appropriated for Overseas Contingency Operations (PEs 0305208F & 0305240F).

FY16 funding totals include \$0 appropriated for Overseas Contingency Operations (PEs 0305208F & 0305240F).

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

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$28.454M PE 35208F is required to address emergency warfighting readiness requirements. AF DCGS is currently air domain centric in nature, technically isolated and unable to seamlessly interface with and access many data sources, tools, and emerging big-data analytics within the Intel Community. This provides procurement funds to establish peer-to-peer cryptologic interoperability with NSA architecture, automated ingest of airborne data, improved geolocation timeliness & accuracy for tracking & targeting, greatly enhancing the quality of DCGS analysis.

Justification:

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

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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: 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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	537.370	629.371	577.710	0.000	577.710	815.175	713.603	617.488	715.228	-	4,605.945
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	537.370	629.371	577.710	0.000	577.710	815.175	713.603	617.488	715.228	-	4,605.945
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	537.370	629.371	577.710	0.000	577.710	815.175	713.603	617.488	715.228	-	4,605.945

(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. \$1 million is required to address emergency warfighting readiness requirements.

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$1 million is required to address special access program.

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. \$1.0M is required to address emergency warfighting readiness requirements.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Air Force **Date:** March 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
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	15.422	7.825	16.600	0.000	16.600	17.831	7.525	7.957	10.245	0.000	83.405
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	15.422	7.825	16.600	0.000	16.600	17.831	7.525	7.957	10.245	0.000	83.405
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	15.422	7.825	16.600	0.000	16.600	17.831	7.525	7.957	10.245	0.000	83.405

(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.

This line contains funding for the following Major Defense Acquisition Program (MDAP):

FAB-T Inc 1, 199

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

"Fiscal Year (FY) 2017 Request for Additional Appropriations": \$.816 million is required for Ballistic missile early warning radars (EWR) which provide warning and attack assessment of ICBM/SLBM attack against CONUS , also conduct space surveillance adjustments

Justification:

In FY 2017, Combat Training Ranges and Air Traffic Control Approach and Landing System (ATCALs) have large initial spare requirements.

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