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**Department of Defense
Fiscal Year (FY) 2022 Budget Estimates**

May 2021



Air Force

Justification Book Volume 1 of 1

Other Procurement, Air Force

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Air Force • Budget Estimates FY 2022 • Procurement

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Appropriation Language
Fiscal Year (FY) 2022 Budget Estimates
Other Procurement, Air Force

For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment), and supplies, materials, and spare parts therefor, not otherwise provided for; the purchase of passenger motor and expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon, prior to approval of title; reserve plant and Government, contractor-owned equipment layaway, classified programs, and overseas contingency operations, \$25,251,137,000 to remain available for obligation until September 30, 2024.

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Exhibit footnotes for FY 2020 actuals and FY 2021 Enacted:

- a. FY 2020 Actuals: **“Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136).”**
- b. FY 2021 Enacted (for every appropriation except O&M, Army, O&M, Navy, and O&M, AF): **“Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260).”**
- c. FY 2021 Enacted (for O&M, Army, O&M, Navy, and O&M, AF): “Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260) and funds provided by the Congress as OCO to Base Requirements in O&M Army, O&M Navy, and O&M AF.”

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Department of the Air Force
 FY 2022 President's Budget
 Exhibit P-1 FY 2022 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

05 May 2021

Appropriation: Other Procurement, Air Force

Budget Activity -----	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request
02. Vehicular Equipment	344,280	368,267	414,697
03. Electronics and Telecommunications Equip	1,574,784	1,346,802	2,487,165
04. Other Base Maintenance and Support Equip	23,176,236	22,060,407	22,338,722
05. Spares and Repair Parts	104,303	21,511	10,553
Total Other Procurement, Air Force	25,199,603	23,796,987	25,251,137

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

05 May 2021

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Vehicular Equipment									

Passenger Carrying Vehicles									
1	Passenger Carrying Vehicles	A		16,640		10,318		8,448	U
Cargo and Utility Vehicles									
2	Medium Tactical Vehicle	A		3,339		18,458		5,804	U
3	Cap Vehicles	A		1,700		1,800		1,066	U
4	Cargo and Utility Vehicles	A		32,483		50,095		57,459	U
Special Purpose Vehicles									
5	Joint Light Tactical Vehicle	A		73,026		56,694		97,326	U
6	Security And Tactical Vehicles	A		1,315		319		488	U
7	Special Purpose Vehicles	A		67,401		94,411		75,694	U
Fire Fighting Equipment									
8	Fire Fighting/Crash Rescue Vehicles	A		45,256		33,524		12,525	U
Materials Handling Equipment									
9	Materials Handling Vehicles	A		28,770		27,064		34,933	U
Base Maintenance Support									
10	Runway Snow Remov And Cleaning Equ	A		7,412		11,836		9,134	U
11	Base Maintenance Support Vehicles	A		66,923		63,748		111,820	U
Cancelled Account Adjustments									
12	Cancelled Account Adjustments (Bpa	A		15					U
Total Vehicular Equipment				344,280		368,267		414,697	

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 (Dollars in Thousands)

05 May 2021

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 03: Electronics and Telecommunications Equip									

Comm Security Equipment (Comsec)									
13	Comsec Equipment	A		83,615		54,864		66,022	U
14	Strategic Microelectronic Supply System	A						885,051	U
Intelligence Programs									
15	International Intel Tech & Architectures	A		11,386		10,783		5,809	U
16	Intelligence Training Equipment	A		7,619		6,349		5,719	U
17	Intelligence Comm Equipment	A		30,048		31,771		25,844	U
Electronics Programs									
18	Air Traffic Control & Landing Sys	A		22,939		25,842		44,516	U
19	Battle Control System - Fixed			3,063		7,909		2,940	U
20	Theater Air Control Sys Improvemen	A				32,632		43,442	U
21	3D Expeditionary Long-Range Radar	A						96,186	U
22	Weather Observation Forecast	A		31,447		33,021		32,376	U
23	Strategic Command And Control	A		5,090		28,407		37,950	U
24	Cheyenne Mountain Complex	A		10,145		8,199		8,258	U
25	Mission Planning Systems	A		14,508		15,132		14,717	U
26	Integrated Strat Plan & Analy Network (ISPAN)	A		2,336		9,806			U
Spcl Comm-Electronics Projects									
27	General Information Technology	A		36,525		41,800		43,917	U
28	Af Global Command & Control Sys	A		2,756		2,602		414	U

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Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
29	Battlefield Airborne Control Node (BACN)	A		48,478					U
30	Mobility Command And Control	A		21,186		10,541		10,619	U
31	Air Force Physical Security System	A		288,549		141,773		101,896	U
32	Combat Training Ranges	A		264,482		193,185		222,598	U
33	Combat Training Ranges Advance Procurement (CY) C (FY 2022 for FY 2023) (M)							14,730 (14,730)	U
34	Minimum Essential Emergency Comm N	A		132,648		21,664		77,119	U
35	Wide Area Surveillance (WAS)	A		42,118		47,538		38,794	U
36	C3 Countermeasures	A		25,036		100,084		131,238	U
37	Integrated Personnel and Pay System	A						15,240	U
38	GCSS-AF Fos	A		11,226				3,959	U
39	Defense Enterprise Accounting & Mgt Sys	A		2,285		899			U
40	Maintenance Repair & Overhaul Initiative	A						4,387	U
41	Theater Battle Mgt C2 System	A		6,322		3,392		4,052	U
42	Air & Space Operations Center (AOC)	A		33,243		15,383		2,224	U
Air Force Communications									
43	Base Information Transpt Infrast (BITI) Wired	A		42,280		19,147		58,499	U
44	AFNET	A		131,063		84,515		65,354	U
45	Joint Communications Support Element (JCSE)	A		6,505		6,185		4,377	U
46	USCENTCOM	A		20,190		19,649		18,101	U
47	USSTRATCOM	A		11,327		4,337		4,226	U

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Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Organization and Base									
48	Tactical C-E Equipment	A		130,293		132,733		162,955	U
49	Radio Equipment	A		15,402		15,264		14,232	U
50	CCTV/Audiovisual Equipment	A		2,211					U
51	Base Comm Infrastructure	A		64,300		199,925		200,797	U
Modifications									
52	Comm Elect Mods	A		14,163		21,471		18,607	U
Total Electronics and Telecommunications Equip				1,574,784		1,346,802		2,487,165	
Budget Activity 04: Other Base Maintenance and Support Equip									
Personal Safety & Rescue Equip									
53	Personal Safety and Rescue Equipment	A		111,034		49,578		106,449	U
Depot Plant+Mtrls Handling Eq									
54	Power Conditioning Equipment	A		11,000		11,704		11,274	U
55	Mechanized Material Handling Equip	A		11,901		12,110		8,594	U
Base Support Equipment									
56	Base Procured Equipment	A		33,663		24,592		1	U
57	Engineering and EOD Equipment	A		50,072		20,872		32,139	U
58	Mobility Equipment	A		52,974		51,960		63,814	U
59	Fuels Support Equipment (FSE)	A		28,295		11,378		17,928	U
60	Base Maintenance and Support Equipment	A		58,285		73,698		48,534	U

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 (Dollars in Thousands)

05 May 2021

Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Special Support Projects									
62	DARP RC135	A		51,779		27,164		27,359	U
63	DCGS-AF	A		118,055		140,228		261,070	U
65	Special Update Program	A		917,148		731,941		777,652	U
999	Classified Programs			21,732,030		20,905,182		20,983,908	U
Total Other Base Maintenance and Support Equip				23,176,236		22,060,407		22,338,722	
Budget Activity 05: Spares and Repair Parts									

Spares and Repair Parts									
66	Spares and Repair Parts (Cyber)	A				1,664		978	U
67	Spares And Repair Parts	A		104,303		19,847		9,575	U
Total Spares and Repair Parts				104,303		21,511		10,553	
Total Other Procurement, Air Force				25,199,603		23,796,987		25,251,137	

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4	02	02	822990	Cargo and Utility Vehicles.....	Volume 1 - 15
5	02	03	823210	Joint Light Tactical Vehicle.....	Volume 1 - 27
6	02	03	823230	Security And Tactical Vehicles.....	Volume 1 - 33
7	02	03	823990	Special Purpose Vehicles.....	Volume 1 - 35
8	02	04	824010	Fire Fighting/Crash Rescue Vehicles.....	Volume 1 - 45
9	02	05	825990	Materials Handling Vehicles.....	Volume 1 - 51
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15	03	02	832050	International Intel Tech & Architectures.....	Volume 1 - 93
16	03	02	832060	Intelligence Training Equipment.....	Volume 1 - 97
17	03	02	832070	Intelligence Comm Equipment.....	Volume 1 - 101
18	03	03	833010	Air Traffic Control & Landing Sys.....	Volume 1 - 115
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20	03	03	833040	Theater Air Control Sys Improvemen.....	Volume 1 - 129
21	03	03	833060	3D Expeditionary Long-Range Radar.....	Volume 1 - 137
22	03	03	833070	Weather Observation Forecast.....	Volume 1 - 143
23	03	03	833140	Strategic Command And Control.....	Volume 1 - 155
24	03	03	833160	Cheyenne Mountain Complex.....	Volume 1 - 167
25	03	03	833170	Mission Planning Systems.....	Volume 1 - 175
26	03	03	833560	Integrated Strat Plan & Analy Network (ISPAN).....	Volume 1 - 179
27	03	04	834010	General Information Technology.....	Volume 1 - 181
28	03	04	834040	Af Global Command & Control Sys.....	Volume 1 - 211

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31	03	04	834130	Air Force Physical Security System.....	Volume 1 - 219
32	03	04	834190	Combat Training Ranges.....	Volume 1 - 231
33	03	04	834190	Combat Training Ranges, Advance Procurement.....	Volume 1 - 245
34	03	04	834210	Minimum Essential Emergency Comm N.....	Volume 1 - 249
35	03	04	834240	Wide Area Surveillance (WAS).....	Volume 1 - 257
36	03	04	834320	C3 Countermeasures.....	Volume 1 - 267
37	03	04	834410	Integrated Personnel and Pay System.....	Volume 1 - 281
38	03	04	834430	GCSS-AF Fos.....	Volume 1 - 285
39	03	04	834470	Defense Enterprise Accounting & Mgt Sys.....	Volume 1 - 287
40	03	04	834480	Maintenance Repair & Overhaul Initiative.....	Volume 1 - 289
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42	03	04	834530	Air & Space Operations Center (AOC).....	Volume 1 - 293
43	03	05	835060	Base Information Transpt Infrast (BITI) Wired.....	Volume 1 - 295
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45	03	05	835110	Joint Communications Support Element (JCSE).....	Volume 1 - 311
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49	03	07	837190	Radio Equipment.....	Volume 1 - 337
50	03	07	837240	CCTV/Audiovisual Equipment.....	Volume 1 - 341
51	03	07	837300	Base Comm Infrastructure.....	Volume 1 - 343
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55	04	03	843050	Mechanized Material Handling Equip.....	Volume 1 - 389
56	04	05	845010	Base Procured Equipment.....	Volume 1 - 393
57	04	05	845100	Engineering and EOD Equipment.....	Volume 1 - 395
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59	04	05	845550	Fuels Support Equipment (FSE).....	Volume 1 - 403

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63	04	06	846080	DCGS - AF.....	Volume 1 - 419
65	04	06	846510	Special Update Program.....	Volume 1 - 437

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Af Global Command & Control Sys	834040	28	03	04.....	Volume 1 - 211
Air & Space Operations Center (AOC)	834530	42	03	04.....	Volume 1 - 293
Air Force Physical Security System	834130	31	03	04.....	Volume 1 - 219
Air Traffic Control & Landing Sys	833010	18	03	03.....	Volume 1 - 115
Base Comm Infrastructure	837300	51	03	07.....	Volume 1 - 343
Base Information Transpnt Infrast (BITI) Wired	835060	43	03	05.....	Volume 1 - 295
Base Maintenance Support Vehicles	826990	11	02	06.....	Volume 1 - 65
Base Maintenance and Support Equipment	845990	60	04	05.....	Volume 1 - 407
Base Procured Equipment	845010	56	04	05.....	Volume 1 - 393
Battle Control System - Fixed	833030	19	03	03.....	Volume 1 - 127
Battlefield Airborne Control Node (BACN)	834050	29	03	04.....	Volume 1 - 213
C3 Countermeasures	834320	36	03	04.....	Volume 1 - 267
CCTV/Audiovisual Equipment	837240	50	03	07.....	Volume 1 - 341
Cap Vehicles	822910	3	02	02.....	Volume 1 - 13
Cargo and Utility Vehicles	822990	4	02	02.....	Volume 1 - 15

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Combat Training Ranges, Advance Procurement	834190	33	03	04.....	Volume 1 - 245
Comm Elect Mods	838010	52	03	08.....	Volume 1 - 367
Comsec Equipment	831010	13	03	01.....	Volume 1 - 77
DARP RC135	846070	62	04	06.....	Volume 1 - 413
DCGS - AF	846080	63	04	06.....	Volume 1 - 419
Defense Enterprise Accounting & Mgt Sys	834470	39	03	04.....	Volume 1 - 287
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Fire Fighting/Crash Rescue Vehicles	824010	8	02	04.....	Volume 1 - 45
Fuels Support Equipment (FSE)	845550	59	04	05.....	Volume 1 - 403
GCSS-AF Fos	834430	38	03	04.....	Volume 1 - 285
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Integrated Personnel and Pay System	834410	37	03	04.....	Volume 1 - 281
Integrated Strat Plan & Analy Network (ISPAN)	833560	26	03	03.....	Volume 1 - 179
Intelligence Comm Equipment	832070	17	03	02.....	Volume 1 - 101
Intelligence Training Equipment	832060	16	03	02.....	Volume 1 - 97
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Mechanized Material Handling Equip	843050	55	04	03.....	Volume 1 - 389
Medium Tactical Vehicle	822230	2	02	02.....	Volume 1 - 7
Minimum Essential Emergency Comm N	834210	34	03	04.....	Volume 1 - 249
Mission Planning Systems	833170	25	03	03.....	Volume 1 - 175
Mobility Command And Control	834070	30	03	04.....	Volume 1 - 215
Mobility Equipment	845420	58	04	05.....	Volume 1 - 399
Passenger Carrying Vehicles	821800	1	02	01.....	Volume 1 - 1
Personal Safety and Rescue Equipment	842990	53	04	02.....	Volume 1 - 375
Power Conditioning Equipment	843040	54	04	03.....	Volume 1 - 385
Radio Equipment	837190	49	03	07.....	Volume 1 - 337
Runway Snow Remov And Cleaning Equ	826210	10	02	06.....	Volume 1 - 59
STRATEGIC MICROELECTRIC SUPPLY SYSTEM	831020	14	03	01.....	Volume 1 - 91
Security And Tactical Vehicles	823230	6	02	03.....	Volume 1 - 33
Spares And Repair Parts	861900	67	05	01.....	Volume 1 - 441
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USSTRATCOM	835160	47	03	05.....	Volume 1 - 319
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Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Lookup Matrix by Model

Model:	RRSVSRadioModernization	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	CRC RRSVS RADIO MOD UPGRADE	No

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

Model:	CheyenneMountainComplex	
Modification P-40a Aggregated Items Title:	COCOM Mobile Command and Control Centers (MCCCs)	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
003	Mobile Consolidated Command Center Upgrade Block 01	No
005	Mobile Consolidated Command Center Upgrade Block 03	No
006	MCCC Upgrade Block 04	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
007	Mobile Consolidated Command Center Upgrade Block 05	No

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

Model:	CheyenneMounatinComplex	
Modification P-40a Aggregated Items Title:	COCOM Mobile Command and Control Centers (MCCCs)	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
004	Mobile Consolidated Command Center Upgrade Block 02	No

Model:	NORADCheyenneMountainComplex	
Modification P-40a Aggregated Items Title:	NMC - TW/AA System	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
NCMCB1	NORAD Cheyenne Mountain Complex Block 01	No
NCMCB2	NORAD Cheyenne Mountain Complex Block 02	No
NCMCB3	NORAD Cheyenne Mountain Complex Block 03	No

Model:	Bases	
Modification P-40a Aggregated Items Title:	Base Physical Security Systems	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
AFPSS4	Base Physical Security Systems	No
CSUAS2	C-sUAS	No
IBDSS-1	IBDSS-1	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	IBDSS-2	No

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

Model:	CombatTrainingRange	
Modification P-40a Aggregated Items Title:	CEAR MODS	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
CTR02	CEAR UMTE Mod	No

Model:	JointThreatEmitter	
Modification P-40a Aggregated Items Title:	JTE	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
CTR01	Combat Training Ranges Joint Threat Emitter	No

Model:	GASNTi1	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	GASNTi1	No

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

Model:	ACD	
Modification P-40a Aggregated Items Title:	AF Defensive Cyberspace Operations	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		

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Air Force • Budget Estimates FY 2022 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Model:	ACD	
Modification P-40a Aggregated Items Title:	AF Defensive Cyberspace Operations	
Item Number	Item Title	Applies to Multiple Models
Mod 1 0208088F	ACD WS 0208088F	No

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

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

Model:	NAS	
Modification P-40a Aggregated Items Title:	National Airspace System (NAS) Plan	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
NAS Mod 2	NAS Low Cost Mods	No
NAS Mod 3	DASR Site Control Data Interface (SCDI)	No
NAS Mod 4	National Airspace System (NAS) Mod 4	No

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

Model:	RC-135	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
1	DARP Modification	No

Model:	0305208	
Modification P-40a Aggregated Items Title:	Distributed Common Ground/Surface Systems	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
DGS-5	DGS-5 (Hawaii) Upgrade	No

Model:	0305208F	
Modification P-40a Aggregated Items Title:	Distributed Common Ground/Surface Systems	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
DCGS13	NASIC	No
DCGS5	Sensor Integration	No
DCGS8	DCGS Reference Imagery Transition (DRT)	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
2	Signals Intelligence (SIGINT)	No
3	Multi-Intelligence (Multi-INT)	No
4	Network Infrastructure Transformation	No

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

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

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

Funding (\$ M)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Exhibit P-40a										
Numerical Weather Modeling (NWM)	27.364	1.459	2.864	0.936	-	0.936	-	-	-	-
Mobile Consolidated Command Center Upgrade Block 01	8.285	-	-	-	-	-	-	-	-	-
Mobile Consolidated Command Center Upgrade Block 02	9.563	0.200	-	-	-	-	-	-	-	-
Mobile Consolidated Command Center Upgrade Block 03	-	7.866	0.200	-	-	-	-	-	-	-
MCCC Upgrade Block 04	-	-	7.999	0.200	-	0.200	-	-	-	-
NORAD Cheyenne Mountain Complex Block 01	2.019	-	-	-	-	-	-	-	-	-
NORAD Cheyenne Mountain Complex Block 02	0.500	-	-	-	-	-	-	-	-	-
NORAD Cheyenne Mountain Complex Block 03	0.000	2.079	-	-	-	-	-	-	-	-
Base Physical Security Systems	114.453	-	-	-	-	-	-	-	-	-
C-sUAS	124.072	98.000	-	-	-	-	-	-	-	-
IBDSS-1	127.999	-	-	-	-	-	-	-	-	-
CEAR UMTE Mod	7.936	0.984	-	-	-	-	-	-	-	-
Combat Training Ranges Joint Threat Emitter	9.031	1.735	-	-	-	-	-	-	-	-
ACD WS 0208088F	30.044	16.883	-	-	-	-	-	-	-	-
ATCALs Low Cost Mods (PE 0305114F)	-	1.858	1.882	1.890	-	1.890	-	-	-	-
NAS Low Cost Mods	-	1.854	1.892	1.850	-	1.850	-	-	-	-
DASR Site Control Data Interface (SCDI)	-	4.424	-	-	-	-	-	-	-	-
National Airspace System (NAS) Mod 4	-	-	1.776	0.598	-	0.598	-	-	-	-
DGS-5 (Hawaii) Upgrade	-	-	-	9.700	-	9.700	-	-	-	-
NASIC	2.200	-	-	0.000	-	0.000	-	-	-	-

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Air Force • Budget Estimates FY 2022 • Procurement
 Exhibit P-1M, Procurement Programs - Modification Summary
 (Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Sensor Integration	17.687	0.000	-	0.000	-	0.000	-	-	-	-
DCGS Reference Imagery Transition (DRT)	8.224	-	-	0.000	-	0.000	-	-	-	-
Exhibit P-3a										
CRC RRSVS RADIO MOD UPGRADE	-	-	13.374	18.658	0.000	18.658	-	-	-	-
Mobile Consolidated Command Center Upgrade Block 05	-	-	-	8.058	0.000	8.058	-	-	-	-
IBDSS-2	-	78.953	39.601	44.812	0.000	44.812	-	-	-	-
GASNTi1	140.331	132.648	21.664	77.119	0.000	77.119	-	-	-	-
BITI Mod/Recaps	32.042	42.280	19.147	58.499	0.000	58.499	-	-	-	-
AFINC/CSCS WS 0303089	42.552	109.217	84.515	65.354	0.000	65.354	-	-	-	-
DARP Modification	102.207	51.779	27.164	27.359	0.000	27.359	-	-	-	-
GEOINT Transformation (GEOINT)	87.056	32.898	42.502	37.399	0.000	37.399	-	-	-	-
Signals Intelligence (SIGINT)	78.198	27.259	35.189	24.835	0.000	24.835	-	-	-	-
Multi-Intelligence (Multi-INT)	67.541	12.987	26.783	41.244	0.000	41.244	-	-	-	-
Network Infrastructure Transformation	341.502	22.993	13.466	23.118	0.000	23.118	-	-	-	-
Totals (Total Obligation Authority)										
Total Obligation Authority	1,380.806	648.356	340.018	441.629	0.000	441.629	0.000	0.000	0.000	0.000

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ACRONYMS

GENERAL ACRONYMS

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

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FOT&E	- Follow-on Test and Evaluation
FOC	- Fully Operational Capability
FLTS	- Flight Line Test Set
FPIF	- Fixed Price Incentive Firm
FPIS	- Fixed Price Incentive Fee, Successive Targets
FY	- Fiscal Year
GANS	- Global Access Navigation & Safety
GATM	- Global Air Traffic Management
GFE	- Government Furnished Equipment
GFP	- Government Furnished Property
GPS	- Global Positioning System
GSE	- Ground Support Equipment
ICS	- Interim Contractor Support
IOC	- Initial Operating Capability
IT	- Information Technology
JUON	- Joint Urgent Operational Need
MAIS	- Major Automated Information System Program
MDAP	- Major Defense Acquisition Program
METS	- Mobile Electronic Test Stations
MYP	- Multiyear Procurement
NAVWAR	- Navigation Warfare
NMC Rate	- Not Mission Capable Rate
OCO	- Overseas Contingency Operations
OT&E	- Operational Test and Evaluation
OWRM	- Other War Reserve Material
PAGEL	- Priced Aerospace Ground Equipment List
PB	- President's Budget
PBR	- Program Budget Review
PMA	- Program Management Administration
PMC	- Procurement Method Code
PNO	- Acquisition Program Number (MDAP Codes)
PR	- Purchase Request
PRCP	- Program Resource Collection Process
PTT	- Part Task Trainer
PY	- Prior Year
R&M	- Reliability and Maintainability

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

BASE / ORGANIZATIONAL ACRONYMS

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

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

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CONTRACT METHOD / TYPE ACRONYMS

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

CONTRACTED BY ACRONYMS

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

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

IDENTIFICATION CODES

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 1: Passenger Carrying Vehicles	P-1 Line Item Number / Title: 821800 / Passenger Carrying 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	16.640	10.318	8.448	-	8.448	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	16.640	10.318	8.448	-	8.448	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	16.640	10.318	8.448	-	8.448	-	-	-	-	-	-

(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:

FY20 funding totals include 1.276M appropriated for Overseas Contingency Operations.

FY21 funding totals include 1.302M appropriated for Overseas Contingency Operations.

FY22 funding totals include 1.210M requested for Direct War and/or Enduring Requirements.

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

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

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

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

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

Some vehicles in this exhibit are procured with European Defense Initiative funding.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 1: Passenger Carrying Vehicles		P-1 Line Item Number / Title: 821800 / Passenger Carrying 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
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Line Item MDAP/MAIS Code: N/A

This requirement [or modification] supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

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: 0207597F, 0305202F, 0507831F, 0502831F, 0702831F, 0305155F.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	198	71	79	0	79	-	-	-	-
	Total Obligation Authority	16.379	10.070	8.173	0.000	8.173	-	-	-	-
AFNG	Quantity	2	4	4	0	4	-	-	-	-
	Total Obligation Authority	0.203	0.188	0.210	0.000	0.210	-	-	-	-
AFR	Quantity	2	2	3	0	3	-	-	-	-
	Total Obligation Authority	0.058	0.060	0.065	0.000	0.065	-	-	-	-
Total:	Quantity	202	77	86	0	86	-	-	-	-
Secondary Distribution	Total Obligation Authority	16.640	10.318	8.448	0.000	8.448	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 1: Passenger Carrying Vehicles **P-1 Line Item Number / Title:** 821800 / Passenger Carrying Vehicles

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Passenger Carrying Vehicles				- / -	- / 16.640	- / 10.318	- / 8.448	- / -	- / 8.448
P-40	Total Gross/Weapon System Cost				- / -	- / 16.640	- / 10.318	- / 8.448	- / -	- / 8.448

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

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

Justification:
 FY22 procurement dollars in the amount of 8.448M will procure, but not be limited to, 86 vehicles in support of installation and unit mission requirements for Air Force personnel. Total procurement dollars in the amount of 8.448M includes:
 --- FY22 procurement dollars from above funding includes 3.292M for 33 vehicle requirements as the Air Force resumes base operating support and vehicle support at Joint Region Marianas from the Navy.
 --- FY22 procurement dollars from above funding includes 1.210M for 9 vehicle requirements for Enduring Requirements.
 Quantities are based on current requirements provided by the 441 Vehicle Support Chain Operations Squadron (VSCOS) IAW the process outlined in AFI 24-302, Vehicle Management. The requirements are generated from the priority buy model that is used to support the Planning, Programming, Budgeting and Execution (PPBE) process. The model calculates vehicle requirements by fund year by BPAC using end of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 Quantities reflected on the PDOCs show current requirements for each year supporting Active Duty, Air Force Reserve Center (AFRC), Air National Guard (ANG), Rapid Airfield Damage Repair (RADR), European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.
 As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.
 Unit Cost is subject to change from year-to-year based on buy quantities, CONUS/OCONUS locations, inflation and additional requirements (options required by users). Examples of options include, but are not limited to, specialized trailer towing packages, export (non-Ultra Low Sulfur Diesel) engines, and mission specific specialized attachments for construction vehicles. Unit cost is also subject to change based on fluctuations in contract pricing.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 1						P-1 Line Item Number / Title: 821800 / Passenger Carrying Vehicles						Aggregated Items Title: Passenger Carrying Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BUS, 23 PAX SURREY (2310-01-382-3919)	A		-	-	-	0.081	3	0.243	0.087	3	0.261	0.090	6	0.542	-	-	-	0.090	6	0.542
<i>Secondary Distribution</i>																				
AF			-	-	-		3	0.243		3	0.261		6	0.542		-	-		6	0.542
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.016	-	-	0.005	-	-	0.005	-	-	-	-	-	0.005
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.016	-	-	0.005	-	-	0.005	-	-	-	-	-	0.005
PEC: 0305155F - THEATER NUCLEAR WEAPON STORAGE & SECURITY SYSTEM (UNKNOWN REQUIREMENTS)	A		-	-	-	-	-	-	-	-	5.494	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	5.494	-	-	-	-	-	-	-	-	-
SDN MIDSIZE 5PAX CL III (2310-01-074-7736)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUB COMPACT SEDAN (2310-01-434-2235)	A		-	-	-	0.019	33	0.630	0.019	10	0.191	0.019	8	0.155	-	-	-	0.019	8	0.155
<i>Secondary Distribution</i>																				
AF			-	-	-		32	0.611		9	0.172		6	0.116		-	-		6	0.116
AFNG			-	-	-		-	-		1	0.019		-	-		-	-		-	-
AFR			-	-	-		1	0.019		-	-		2	0.039		-	-		2	0.039
HYBRID SEDAN (2310-01-575-5380)	A		-	-	-	0.020	18	0.360	0.021	7	0.144	0.021	2	0.041	-	-	-	0.021	2	0.041
<i>Secondary Distribution</i>																				
AF			-	-	-		18	0.360		7	0.144		2	0.041		-	-		2	0.041
SDN DOD INVESTIGATION UPFIT (2310-01-670-6144)	A		-	-	-	0.039	15	0.586	0.034	11	0.374	0.035	8	0.284	-	-	-	0.036	8	0.284
<i>Secondary Distribution</i>																				
AF			-	-	-		14	0.547		9	0.306		8	0.284		-	-		8	0.284
AFNG			-	-	-		-	-		1	0.034		-	-		-	-		-	-
AFR			-	-	-		1	0.039		1	0.034		-	-		-	-		-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 1						P-1 Line Item Number / Title: 821800 / Passenger Carrying Vehicles						Aggregated Items Title: Passenger Carrying Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
HI PERFORMANCE SEDAN (2310-01-571-3859)	A		-	-	-	0.025	8	0.203	0.028	7	0.193	0.034	4	0.135	-	-	-	0.034	4	0.135
<i>Secondary Distribution</i>																				
AF				-	-		8	0.203		7	0.193		4	0.135		-	-		4	0.135
SEDAN, CMPT (2310-01-096-3343)	A		-	-	-	0.026	41	1.048	0.026	15	0.384	0.026	15	0.384	-	-	-	0.026	15	0.384
<i>Secondary Distribution</i>																				
AF				-	-		41	1.048		13	0.332		12	0.307		-	-		12	0.307
AFNG				-	-		-	-		1	0.026		2	0.051		-	-		2	0.051
AFR				-	-		-	-		1	0.026		1	0.026		-	-		1	0.026
AMB, 44 PAX CONV US (2310-00-289-9082)	A		-	-	-	0.136	19	2.591	0.137	2	0.274	0.138	3	0.414	-	-	-	0.138	3	0.414
<i>Secondary Distribution</i>																				
AF				-	-		19	2.591		2	0.274		3	0.414		-	-		3	0.414
AMB, MOD 4X4 US (2310-01-125-9516)	A		-	-	-	0.179	19	3.397	0.179	5	0.894	0.191	2	0.382	-	-	-	0.191	2	0.382
<i>Secondary Distribution</i>																				
AF				-	-		19	3.397		5	0.894		2	0.382		-	-		2	0.382
BUS, 16 PAX US (2310-01-186-2924)	A		-	-	-	0.077	4	0.309	0.080	2	0.159	0.079	7	0.556	-	-	-	0.079	7	0.556
<i>Secondary Distribution</i>																				
AF				-	-		3	0.232		2	0.159		5	0.397		-	-		5	0.397
AFNG				-	-		1	0.077		-	-		2	0.159		-	-		2	0.159
BUS INTRACITY 4X2 41-51PAX (2310-01-372-1822)	A		-	-	-	0.120	5	0.600	0.121	2	0.241	0.121	1	0.121	-	-	-	0.121	1	0.121
<i>Secondary Distribution</i>																				
AF				-	-		5	0.600		2	0.241		1	0.121		-	-		1	0.121
BUS, 28 PAX US (2310-01-357-8985)	A		-	-	-	0.109	12	1.303	0.109	8	0.871	0.108	9	0.972	-	-	-	0.108	9	0.972
<i>Secondary Distribution</i>																				
AF				-	-		12	1.303		7	0.762		9	0.972		-	-		9	0.972
AFNG				-	-		-	-		1	0.109		-	-		-	-		-	-
BUS, 41 PAX US (2310-00-877-5647)	A		-	-	-	0.576	3	1.728	-	-	-	0.518	3	1.555	-	-	-	0.518	3	1.555
<i>Secondary Distribution</i>																				
AF				-	-		3	1.728		-	-		3	1.555		-	-		3	1.555
BUS, 44 PAX US (2310-01-357-8986)	A		-	-	-	0.126	11	1.386	0.126	2	0.252	0.126	9	1.134	-	-	-	0.126	9	1.134

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 1 **P-1 Line Item Number / Title:** 821800 / Passenger Carrying Vehicles **Aggregated Items Title:** Passenger Carrying Vehicles

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		10	1.260		2	0.252		9	1.134		-	-		9	1.134
AFNG				-	-		1	0.126		-	-		-	-		-	-		-	-
ARMORED SEDAN (2310-01-135-0997)	A			-	-	0.211	8	1.686	0.211	1	0.211	0.211	4	0.843		-	-	0.211	4	0.843
<i>Secondary Distribution</i>																				
AF				-	-		8	1.686		1	0.211		4	0.843		-	-		4	0.843
AMBULANCE MODULAR 4X2 (2310-01-129-4702)	A			-	-	0.185	3	0.554	0.185	2	0.370	0.185	5	0.925		-	-	0.185	5	0.925
<i>Secondary Distribution</i>																				
AF				-	-		3	0.554		2	0.370		5	0.925		-	-		5	0.925
Subtotal: Uncategorized			-	-	-	-	-	16.640	-	-	10.318	-	-	8.448	-	-	-	-	-	8.448
Total			-	-	-	-	-	16.640	-	-	10.318	-	-	8.448	-	-	-	-	-	8.448

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

Remarks:

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

UNIT COSTS FOR FY22 ARE SUBJECT TO CHANGE.

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	3.339	18.458	5.804	-	5.804	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	3.339	18.458	5.804	-	5.804	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	3.339	18.458	5.804	-	5.804	-	-	-	-	-	-

(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:

FY21 (PY) funding totals include \$3.4M appropriated for Overseas Contingency Operations.

The Family of Medium Tactical Vehicles (FMTV) contains a broad class of military specification vehicles with the capability to operate in austere and adverse terrain. They include, but are not limited to, Cargo Trucks, Wreckers, Dump Trucks, Tractors, Mobilizers, and Medium Tactical Trailers. They provide a range of capabilities such as line haul, mobility, resupply, maintenance, recovery, construction and civil engineering support. They can be ordered with armor and winch systems. These tactical vehicles are used by Combat Communication Units, Air Support Operation Squadrons (ASOS), Explosive Ordnance Disposal units (EOD), and other direct mission support units throughout the Air Force.

M1297 Ground Mobility Vehicle (GMV) 1.1: The GMV is a fast, lightweight, and highly mobile all-terrain combat vehicle developed to fill a ground mobility capability gap that was identified by SOCOM. The GMV is capable of being transported in the CH-47, CV-22 and C-130 aircraft and is low-velocity airdrop capable. The GMV can carry up to nine personnel. It is capable of being "guns up in under a minute after exiting the aircraft, and can carry a variety of armaments. Its adaptable communications suite provides increased operating range and provides the operator real-time access to critical information. The advanced lightweight chassis and suspension allows the GMV to negotiate severe terrain at high speeds, maintain stability and performance while carrying a maximum payload. The main weapon turret allows for 360 degrees of firepower protection up to a 30mm cannon. Door mounted arm-swings can be mounted to handle smaller caliber secondary crew-served weapons. This vehicle is primarily used by Air Force Tactical Air Control Party (TACP) and Special Operations forces.

Infantry Squad Vehicle (ISV): The ISV provides mobility for a 9-person squad with associated equipment to move around the close battle area. The ISV is a lightweight, high mobility platform that is transportable by all means including vertical lift and Low Velocity Air Drop (LVAD). The ISV adds a needed capability to Airmen for mobility to support dispersed wide area security, increased speed, extended reach, burden reduction, carrying enablers, battery charging, mission command enhancement, and offers the commander new maneuver options. This vehicle is primarily used by Special Operations Forces, Tactical Air Control Party, and Security Forces.

This requirement [or modification] supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D "Audits: audit of financial statements of Department of Defense components by independent external auditors.

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles		P-1 Line Item Number / Title: 822230 / Medium Tactical Vehicle
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

Funding for the exhibit contained in PEs 0507831F, 0502831F, 0702831F.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	42	98	28	0	28	-	-	-	-
	Total Obligation Authority	3.253	15.986	3.336	0.000	3.336	-	-	-	-
AFNG	Quantity	1	10	11	0	11	-	-	-	-
	Total Obligation Authority	0.030	1.803	1.801	0.000	1.801	-	-	-	-
AFR	Quantity	1	9	5	0	5	-	-	-	-
	Total Obligation Authority	0.056	0.669	0.667	0.000	0.667	-	-	-	-
Total:	Quantity	44	117	44	0	44	-	-	-	-
Secondary Distribution	Total Obligation Authority	3.339	18.458	5.804	0.000	5.804	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Medium Tactical Vehicle				- / -	- / 3.339	- / 18.458	- / 5.804	- / -	- / 5.804
P-40	Total Gross/Weapon System Cost				- / -	- / 3.339	- / 18.458	- / 5.804	- / -	- / 5.804

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

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

Justification:
 FY22 procurement dollars in the amount of 5.804M will procure, but not be limited to, 44 vehicles in support of installation and unit mission requirements for Air Force personnel. Total procurement dollars in the amount of 5.804M includes:
 ---FY22 procurement dollars from above funding includes 0.713M for 5 vehicle requirements as the Air Force resumes base operating support and vehicle support at Joint Region Marianas from the Navy.
 FY20 procurement dollars in the amount of 32.0M were returned due to Army contract delays which are forecasted to be available late FY21 or early FY22. Contracts are managed by TACOM (ARMY) as the Primary Inventory Control Agency (PICA) and they are changing the entire M-Series from an A1P2 variant to an A2 variant which will require new NSN assignments. Unit cost will increase but at this time that cost is unknown.
 Quantities are based on current requirements provided by the 441 Vehicle Support Chain Operations Squadron (VSCOS) IAW the process outlined in AFI 24-302, Vehicle Management. The requirements are generated from the priority buy model that is used to support the Planning, Programming, Budgeting and Execution (PPBE) process. The model calculates vehicle requirements by fund year by BPAC using end of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 Quantities reflected on the PDOCs show current requirements for each year supporting Active Duty, Air Force Reserve Center (AFRC), Air National Guard (ANG), Rapid Airfield Damage Repair (RADR), European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.
 As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.
 Unit Cost is subject to change from year-to-year based on buy quantities, CONUS/OCONUS locations, inflation and additional requirements (options required by users). Examples of options include, but are not limited to, specialized trailer towing packages, export (non-Ultra Low Sulfur Diesel) engines, and mission specific specialized attachments for construction vehicles. Unit cost is also subject to change based on fluctuations in contract pricing.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
TRK, CGO, MTV, M1083A1P2, W/ WINCH (2320-01-549-8565)	A		-	-	-	0.256	7	1.792	0.262	23	6.021	0.198	8	1.582	-	-	-	0.198	8	1.582
<i>Secondary Distribution</i>																				
AF			-	-	-		7	1.792		17	4.448		3	0.271		-	-		3	0.271
AFNG			-	-	-		-	-		6	1.573		4	1.049		-	-		4	1.049
AFR			-	-	-		-	-		-	-		1	0.262		-	-		1	0.262
DUMP TRK, M1157A1P2, 10TON, W/WINCH (2320-01-552-7782)	A		-	-	-	-	-	-	0.358	4	1.431	0.357	2	0.715	-	-	-	0.358	2	0.715
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		4	1.431		2	0.715		-	-		2	0.715
M1088 5T SEMI TRAC W/WINCH (2320-01-552-7753)	A		-	-	-	-	-	-	0.269	7	1.886	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		7	1.886		-	-		-	-		-	-
TRAILER, 5 TON M1095 (2330-01-449-1776)	A		-	-	-	-	-	-	0.049	14	0.680	0.049	2	0.097	-	-	-	0.049	2	0.097
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		13	0.631		2	0.097		-	-		2	0.097
AFNG			-	-	-	-	-	-		1	0.049		-	-		-	-		-	-
DOLLY SET, 12 TON (8226)	A		-	-	-	-	-	-	-	-	-	0.105	4	0.420	-	-	-	0.105	4	0.420
<i>Secondary Distribution</i>																				
AFNG			-	-	-	-	-	-		-	-		4	0.420		-	-		4	0.420
PMA OTHER GOVERNMENT COST	A		-	-	-	-	-	0.102	-	-	0.017	-	-	0.020	-	-	-	-	-	0.020
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.102		-	0.017		-	0.020		-	-		-	0.020
PMA CONTRACTOR SUPPORT	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOLLY SET, XM720 3TON (4251)	A		-	-	-	-	-	-	-	-	-	0.025	1	0.025	-	-	-	0.025	1	0.025
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		-	-		1	0.025		-	-		1	0.025

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822230 / Medium Tactical Vehicle						Aggregated Items Title: Medium Tactical Vehicle								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
TRUCK, DUMP (2320-01-552-7782)	A		-	-	-	-	-	-	0.300	2	0.599	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		2	0.599		-	-		-	-		-	
TRK, WRECKER, M1089A1P2 W/WINCH (2320-01-595-3994)	A		-	-	-	-	-	-	0.549	8	4.388	0.377	3	1.130	-	-	-	0.377	3	1.130
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		8	4.388		3	1.130		-	-		3	1.130
TRK, CGO, MTV, M1078A1P2, W/ WINCH (2320-01-549-8611)	A		-	-	-	0.212	1	0.212	0.216	5	1.078	0.142	7	0.994	-	-	-	0.142	7	0.994
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.212		3	0.647		5	0.562		-	-		5	0.562
AFNG			-	-	-		-	-		-	-		1	0.216		-	-		1	0.216
AFR			-	-	-		-	-		2	0.431		1	0.216		-	-		1	0.216
TLR TK WTR, M149A1 (2330-00-060-6511)	A		-	-	-	0.030	29	0.870	0.030	22	0.662	0.030	9	0.271	-	-	-	0.030	9	0.271
<i>Secondary Distribution</i>																				
AF			-	-	-		28	0.840		18	0.542		8	0.241		-	-		8	0.241
AFNG			-	-	-		1	0.030		-	-		1	0.030		-	-		1	0.030
AFR			-	-	-		-	-		4	0.120		-	-		-	-		-	-
TLR, ISO CONTAINER M872 (2330-01-142-1385)	A		-	-	-	0.056	3	0.168	0.056	8	0.447	0.063	4	0.252	-	-	-	0.063	4	0.252
<i>Secondary Distribution</i>																				
AF			-	-	-		2	0.112		7	0.391		1	0.063		-	-		1	0.063
AFNG			-	-	-		-	-		1	0.056		-	-		-	-		-	-
AFR			-	-	-		1	0.056		-	-		3	0.189		-	-		3	0.189
TLR, 2.5T CHS, M200 (2330-01-449-1775)	A		-	-	-	0.039	1	0.039	0.039	13	0.510	0.039	1	0.039	-	-	-	0.039	1	0.039
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.039		9	0.353		1	0.039		-	-		1	0.039
AFNG			-	-	-		-	-		1	0.039		-	-		-	-		-	-
AFR			-	-	-		-	-		3	0.118		-	-		-	-		-	-
7.5TON DOLLY SET (2330-01-661-5190)	A		-	-	-	-	-	-	0.086	5	0.431	0.086	3	0.259	-	-	-	0.086	3	0.259
<i>Secondary Distribution</i>																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2	P-1 Line Item Number / Title: 822230 / Medium Tactical Vehicle	Aggregated Items Title: Medium Tactical Vehicle
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AF				-	-		-	-		4	0.345		2	0.173		-	-		2	0.173
AFNG				-	-		-	-		1	0.086		1	0.086		-	-		1	0.086
M871, TRLR ISO CONTAINER (2330-01-226-0701)	A		-	-	-	0.052	3	0.156	0.051	6	0.308	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		3	0.156		6	0.308		-	-		-	-		-	-
Subtotal: Uncategorized			-	-	-	-	-	3.339	-	-	18.458	-	-	5.804	-	-	-	-	-	5.804
Total			-	-	-	-	-	3.339	-	-	18.458	-	-	5.804	-	-	-	-	-	5.804

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

Remarks:

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

Unit costs and quantities for FY22 are subject to change.

PMA OTHER CONTRACTOR SERVICES: This funding includes provisions for government contract oversight, technical expertise, and program office support associated with the 12 Ton Dollyset.

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	1.700	1.800	1.066	-	1.066	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	1.700	1.800	1.066	-	1.066	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	1.700	1.800	1.066	-	1.066	-	-	-	-	-	-

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

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

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

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

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

Justification:

FY22 funding procures, but is not limited to, vehicles, Cadet and Aerospace Education programs that encourage and develop the voluntary contribution of private citizens to the public welfare.

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

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

AF central procurement processes are not applicable.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

P-1 Line Item Number / Title:
822990 / Cargo and Utility Vehicles

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	32.483	50.095	57.459	-	57.459	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	32.483	50.095	57.459	-	57.459	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	32.483	50.095	57.459	-	57.459	-	-	-	-	-	-

(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:

FY20 funding totals include 9.702M appropriated for Overseas Contingency Operations.

The FY20 funding request was reduced by 1.300M to account for the availability of prior year execution balances.

FY21 funding totals include 12.475M appropriated for Overseas Contingency Operations.

FY22 funding totals include 5.737M requested for Direct War and/or Enduring Requirements.

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.

"This requirement [or modification] supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D "Audits: audit of financial statements of Department of Defense components by independent external auditors.

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: 0207142F, 0207597F, 0208028F, 0507831F, 0502831F, 0702831F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	621	1,042	1,188	0	1,188	-	-	-	-
	Total Obligation Authority	23.084	40.501	46.277	0.000	46.277	-	-	-	-
AFNG	Quantity	239	146	231	0	231	-	-	-	-
	Total Obligation Authority	6.835	6.936	8.478	0.000	8.478	-	-	-	-
AFR	Quantity	86	61	84	0	84	-	-	-	-
	Total Obligation Authority	2.564	2.658	2.704	0.000	2.704	-	-	-	-
Total:	Quantity	946	1,249	1,503	0	1,503	-	-	-	-
Secondary Distribution	Total Obligation Authority	32.483	50.095	57.459	0.000	57.459	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Cargo and Utility Vehicles				- / -	- / 32.483	- / 50.095	- / 57.459	- / -	- / 57.459
P-40	Total Gross/Weapon System Cost				- / -	- / 32.483	- / 50.095	- / 57.459	- / -	- / 57.459

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

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

Justification:

FY22 procurement dollars in the amount of 57.459M will procure, but not be limited to, 1,503 vehicles in support of installation and unit mission requirements for Air Force personnel.

---FY22 procurement dollars from above funding includes 1.528M for 11 vehicle requirements as the Air Force resumes base operating support and vehicle support at Joint Region Marianas from the Navy.

---FY22 procurement dollars from above funding includes 5.737M for 156 vehicles for Enduring Requirements.

Quantities are based on current requirements provided by the 441 Vehicle Support Chain Operations Squadron (VSCOS) IAW the process outlined in AFI 24-302, Vehicle Management. The requirements are generated from the priority buy model that is used to support the Planning, Programming, Budgeting and Execution (PPBE) process. The model calculates vehicle requirements by fund year by BPAC using end of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.

Quantities reflected on the PDOCs show current requirements for each year supporting Active Duty, Air Force Reserve Center (AFRC), Air National Guard (ANG), Rapid Airfield Damage Repair (RADR), European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

Unit Cost is subject to change from year-to-year based on buy quantities, CONUS/OCONUS locations, inflation and additional requirements (options required by users). Examples of options include, but are not limited to, specialized trailer towing packages, export (non-Ultra Low Sulfur Diesel) engines, and mission specific specialized attachments for construction vehicles. Unit cost is also subject to change based on fluctuations in contract pricing.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles						Aggregated Items Title: Cargo and Utility Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
TRK 1/2 Crew Cab 4x4 PU (2320-01-484-6745)	A		-	-	-	0.023	23	0.533	0.023	23	0.529	0.023	54	1.244	-	-	-	0.023	54	1.244
<i>Secondary Distribution</i>																				
AF			-	-	-		23	0.533		21	0.483		43	0.989		-	-		43	0.989
AFNG			-	-	-		-	-		2	0.046		11	0.255		-	-		11	0.255
TRK CGO 4X2 4DR 17-20999G (2320-00-879-0680)	A		-	-	-	-	-	-	-	-	-	0.126	3	0.378	-	-	-	0.126	3	0.378
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		2	0.252		-	-		2	0.252
AFNG			-	-	-	-	-	-	-	-	-		1	0.126		-	-		1	0.126
TRK 1/2 TON EXTENDED CAB 4X4 (2320-01-462-7874)	A		-	-	-	-	-	-	-	-	-	0.041	4	0.165	-	-	-	0.041	4	0.165
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		3	0.124		-	-		3	0.124
AFNG			-	-	-	-	-	-	-	-	-		1	0.041		-	-		1	0.041
TRK TRAC 4X2 24M-44500G (2320-01-663-0742)	A		-	-	-	-	-	-	0.100	2	0.199	0.109	2	0.218	-	-	-	0.109	2	0.218
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		2	0.199		1	0.109		-	-		1	0.109
AFNG			-	-	-	-	-	-		-	-		1	0.109		-	-		1	0.109
SUV, PATROL MWD UP-FIT (2320-01-671-3641)	A		-	-	-	-	-	-	0.045	10	0.450	0.049	16	0.776	-	-	-	0.049	16	0.776
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		10	0.450		16	0.776		-	-		16	0.776
PAYLOAD TRANSPORT TRUCK (2320-01-529-5420)	A		-	-	-	-	-	-	0.165	2	0.330	0.165	1	0.165	-	-	-	0.165	1	0.165
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		2	0.330		1	0.165		-	-		1	0.165
TRL VAN 48 FT HARD SIDE (2330-01-627-5975)	A		-	-	-	-	-	-	0.052	2	0.104	0.052	1	0.052	-	-	-	0.052	1	0.052
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		2	0.104		1	0.052		-	-		1	0.052

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																	Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2					P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles												Aggregated Items Title: Cargo and Utility Vehicles			
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
SUV DOD PATROL UP-FIT (2320-01-670-6148)	A		-	-	-	-	-	-	0.042	7	0.297	0.046	12	0.552	-	-	-	0.046	12	0.552
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		7	0.297		12	0.552		-	-		12	0.552
TRK MLTSP 4X2 12500-16999GVW (2320-01-090-7900)	A		-	-	-	-	-	-	0.080	12	0.959	0.086	3	0.259	-	-	-	0.086	3	0.259
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		12	0.959		3	0.259		-	-		3	0.259
TRK STK 4X2 2.5 TON (2320-01-064-8540)	A		-	-	-	-	-	-	0.066	2	0.131	0.103	1	0.103	-	-	-	0.103	1	0.103
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		2	0.131		1	0.103		-	-		1	0.103
TRK PU 4DR 4X4 F450 (2320-01-501-6635)	A		-	-	-	0.051	2	0.101	0.053	19	1.006	0.056	26	1.451	-	-	-	0.056	26	1.451
<i>Secondary Distribution</i>																				
AF			-	-	-		2	0.101		8	0.424		26	1.451		-	-		26	1.451
AFNG			-	-	-	-	-	-		6	0.317		-	-		-	-		-	-
AFR			-	-	-	-	-	-		5	0.265		-	-		-	-		-	-
ARMORED 4X4 SUV (2320-01-537-7753)	A		-	-	-	-	-	-	0.180	5	0.900	0.180	3	0.540	-	-	-	0.180	3	0.540
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		5	0.900		3	0.540		-	-		3	0.540
TRK S&P 1000GVW 4X4 (2320-01-302-2698)	A		-	-	-	0.036	12	0.431	0.039	3	0.117	0.039	3	0.117	-	-	-	0.039	3	0.117
<i>Secondary Distribution</i>																				
AF			-	-	-		12	0.431		3	0.117		3	0.117		-	-		3	0.117
4X2 4DR SUV (2320-01-484-8859)	A		-	-	-	0.021	1	0.021	0.019	13	0.252	0.019	1	0.019	-	-	-	0.019	1	0.019
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.021		5	0.097		1	0.019		-	-		1	0.019
AFNG			-	-	-	-	-	-		5	0.097		-	-		-	-		-	-
AFR			-	-	-	-	-	-		3	0.058		-	-		-	-		-	-
TRK CGO 4X4 (2320-01-674-9408)	A		-	-	-	0.099	1	0.099	0.093	6	0.557	0.107	2	0.214	-	-	-	0.107	2	0.214
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.099		1	0.093		2	0.214		-	-		2	0.214

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AFNG				-	-		-	-		5	0.464		-	-		-	-		-	-
TRK UTILITY 4X4 4DOOR (2320-01-338-6502)	A		-	-	-	0.045	4	0.180	0.045	3	0.135	0.035	41	1.435	-	-	-	0.035	41	1.435
<i>Secondary Distribution</i>																				
AF				-	-		4	0.180		3	0.135		41	1.435		-	-		41	1.435
TRK CGO CMPT 4X4 3500G (2320-01-087-8223)	A		-	-	-	0.030	11	0.330	0.030	7	0.210	0.030	3	0.090	-	-	-	0.030	3	0.090
<i>Secondary Distribution</i>																				
AF				-	-		11	0.330		7	0.210		2	0.060		-	-		2	0.060
AFNG				-	-		-	-		-	-		1	0.030		-	-		1	0.030
PMA Other Government Costs	A		-	-	-	-	-	0.013	-	-	0.016	-	-	0.010	-	-	-	-	-	0.010
<i>Secondary Distribution</i>																				
AF				-	-		-	0.013		-	0.016		-	0.010		-	-		-	0.010
TRK TRAC 55 GVW 6X4 RH (2320-01-058-5724)	A		-	-	-	0.105	14	1.470	0.127	18	2.289	0.149	8	1.196	-	-	-	0.150	8	1.196
<i>Secondary Distribution</i>																				
AF				-	-		14	1.470		13	1.653		6	0.897		-	-		6	0.897
AFNG				-	-		-	-		3	0.382		2	0.299		-	-		2	0.299
AFR				-	-		-	-		2	0.254		-	-		-	-		-	-
TRAILER, DROPDECK, 25T (2330-01-657-3335)	A		-	-	-	0.034	5	0.169	0.037	2	0.073	0.037	2	0.074	-	-	-	0.037	2	0.074
<i>Secondary Distribution</i>																				
AF				-	-		4	0.135		2	0.073		1	0.037		-	-		1	0.037
AFNG				-	-		1	0.034		-	-		1	0.037		-	-		1	0.037
1T S&P 4X2 (2320-00-851-8481)	A		-	-	-	0.027	56	1.520	0.028	29	0.816	0.028	26	0.729	-	-	-	0.028	26	0.729
<i>Secondary Distribution</i>																				
AF				-	-		37	1.005		23	0.647		23	0.644		-	-		23	0.644
AFNG				-	-		16	0.434		6	0.169		1	0.028		-	-		1	0.028
AFR				-	-		3	0.081		-	-		2	0.057		-	-		2	0.057
TRK 4X4 DOD MWD UP-FIT (2320-01-670-6147)	A		-	-	-	0.052	4	0.207	0.052	8	0.414	0.052	14	0.725	-	-	-	0.052	14	0.725
<i>Secondary Distribution</i>																				
AF				-	-		4	0.207		8	0.414		14	0.725		-	-		14	0.725

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles						Aggregated Items Title: Cargo and Utility Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
TRAILER TILT DECK 6TON (2330-01-657-2183)	A		-	-	-	0.022	1	0.022	0.011	11	0.121	0.011	4	0.044	-	-	-	0.011	4	0.044
<i>Secondary Distribution</i>																				
AF				-	-		1	0.022		5	0.055		4	0.044		-	-		4	0.044
AFNG				-	-		-	-		6	0.066		-	-		-	-		-	-
TRAILER VAN CARGO 12TON (2330-01-657-3336)	A		-	-	-	0.043	5	0.215	0.042	5	0.211	0.042	3	0.127	-	-	-	0.042	3	0.127
<i>Secondary Distribution</i>																				
AF				-	-		5	0.215		5	0.211		3	0.127		-	-		3	0.127
TRAILER 20T 40FT W/COVER KIT (2330-01-094-0007)	A		-	-	-	0.053	1	0.053	0.053	3	0.160	0.053	4	0.214	-	-	-	0.054	4	0.214
<i>Secondary Distribution</i>																				
AF				-	-		1	0.053		3	0.160		4	0.214		-	-		4	0.214
TRAILER LOWBED 35TON (2330-01-051-6648)	A		-	-	-	0.053	7	0.371	0.057	2	0.113	0.057	4	0.226	-	-	-	0.057	4	0.226
<i>Secondary Distribution</i>																				
AF				-	-		6	0.318		2	0.113		2	0.113		-	-		2	0.113
AFNG				-	-		-	-		-	-		2	0.113		-	-		2	0.113
AFR				-	-		1	0.053		-	-		-	-		-	-		-	-
TRAILER LOW-BED 20TON 25FT (2330-01-657-1333)	A		-	-	-	0.035	2	0.069	0.035	19	0.674	0.035	10	0.354	-	-	-	0.035	10	0.354
<i>Secondary Distribution</i>																				
AF				-	-		2	0.069		19	0.674		9	0.319		-	-		9	0.319
AFNG				-	-		-	-		-	-		1	0.035		-	-		1	0.035
TRK CGO 4DR 4X4 TLR TWG (2320-01-424-2760)	A		-	-	-	0.031	11	0.340	0.038	10	0.384	0.038	38	1.445	-	-	-	0.038	38	1.445
<i>Secondary Distribution</i>																				
AF				-	-		11	0.340		9	0.346		36	1.368		-	-		36	1.368
AFNG				-	-		-	-		1	0.038		2	0.077		-	-		2	0.077
TRAILER, 38 FT. SEMI (2330-01-381-9477)	A		-	-	-	0.034	42	1.445	0.034	76	2.585	0.035	121	4.233	-	-	-	0.035	121	4.233
<i>Secondary Distribution</i>																				
AF				-	-		38	1.308		74	2.517		114	3.990		-	-		114	3.990
AFNG				-	-		3	0.103		2	0.068		4	0.139		-	-		4	0.139
AFR				-	-		1	0.034		-	-		3	0.104		-	-		3	0.104

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles						Aggregated Items Title: Cargo and Utility Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
TRK VAN 16000-24000 GVW (2320-01-039-7929)	A		-	-	-	-	-	-	0.074	2	0.148	0.074	3	0.222	-	-	-	0.074	3	0.222
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		2	0.148		3	0.222		-	-		3	0.222
TRAILER, FLAT BED, 45 FT. AIR RIDE (2330-01-061-8609)	A		-	-	-	0.035	2	0.070	0.028	18	0.497	0.037	2	0.074	-	-	-	0.037	2	0.074
<i>Secondary Distribution</i>																				
AF			-	-	-		2	0.070		18	0.497		1	0.037		-	-		1	0.037
AFNG			-	-	-		-	-		-	-		1	0.037		-	-		1	0.037
TRAILER, 50 TON LOWBED (2330-01-058-5911)	A		-	-	-	0.065	3	0.195	0.069	7	0.481	0.069	8	0.549	-	-	-	0.069	8	0.549
<i>Secondary Distribution</i>																				
AF			-	-	-		3	0.195		7	0.481		8	0.549		-	-		8	0.549
TRAILER, LOWBED, TILT DECK, 22 TON (2330-01-657-3337)	A		-	-	-	0.040	1	0.040	0.038	11	0.416	0.042	4	0.168	-	-	-	0.042	4	0.168
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.040		10	0.378		2	0.084		-	-		2	0.084
AFNG			-	-	-		-	-		1	0.038		2	0.084		-	-		2	0.084
TRUCK, PICKUP, CREW CAB, 1/2T, 4X4 (2320-01-484-6748)	A		-	-	-	0.026	29	0.746	0.026	28	0.720	0.026	86	2.213	-	-	-	0.026	86	2.213
<i>Secondary Distribution</i>																				
AF			-	-	-		22	0.566		21	0.540		49	1.261		-	-		49	1.261
AFNG			-	-	-		5	0.129		4	0.103		37	0.952		-	-		37	0.952
AFR			-	-	-		2	0.051		3	0.077		-	-		-	-		-	-
TRUCK, PICKUP CREW CAB 4X4, 3/4T CU (2320-00-580-2955)	A		-	-	-	0.033	110	3.610	0.042	119	4.946	0.042	129	5.403	-	-	-	0.042	129	5.403
<i>Secondary Distribution</i>																				
AF			-	-	-		51	1.674		95	3.948		96	4.032		-	-		96	4.032
AFNG			-	-	-		50	1.641		19	0.790		24	0.997		-	-		24	0.997
AFR			-	-	-		9	0.295		5	0.208		9	0.374		-	-		9	0.374
TRUCK, PICKUP CREW CAB 4X2, 3/4T CU (2320-00-580-2954)	A		-	-	-	0.028	83	2.346	0.031	55	1.704	0.031	129	3.998	-	-	-	0.031	129	3.998
<i>Secondary Distribution</i>																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AF				-	-		36	1.018		51	1.580		100	3.100		-	-		100	3.100
AFNG				-	-		43	1.215		4	0.124		22	0.681		-	-		22	0.681
AFR				-	-		4	0.113		-	-		7	0.217		-	-		7	0.217
TRUCK, STAKE AND PLATFORM 4X2 1000GVW (2320-01-250-7367)	A		-	-	-	0.031	21	0.660	0.033	33	1.098	0.033	54	1.785	-	-	-	0.033	54	1.785
<i>Secondary Distribution</i>																				
AF				-	-		18	0.566		20	0.666		45	1.485		-	-		45	1.485
AFNG				-	-		-	-		8	0.266		7	0.233		-	-		7	0.233
AFR				-	-		3	0.094		5	0.166		2	0.067		-	-		2	0.067
TRUCK, CARRYALL 4X2 8 PAX (2320-00-879-7662)	A		-	-	-	0.028	29	0.808	0.029	53	1.520	0.030	45	1.367	-	-	-	0.030	45	1.367
<i>Secondary Distribution</i>																				
AF				-	-		20	0.557		47	1.348		38	1.154		-	-		38	1.154
AFNG				-	-		6	0.167		6	0.172		5	0.152		-	-		5	0.152
AFR				-	-		3	0.084		-	-		2	0.061		-	-		2	0.061
TRUCK, CARRYALL 4X2 15 PAX (2320-01-036-6569)	A		-	-	-	0.030	41	1.223	0.030	38	1.134	0.031	52	1.599	-	-	-	0.031	52	1.599
<i>Secondary Distribution</i>																				
AF				-	-		34	1.014		38	1.134		46	1.415		-	-		46	1.415
AFNG				-	-		4	0.119		-	-		3	0.092		-	-		3	0.092
AFR				-	-		3	0.090		-	-		3	0.092		-	-		3	0.092
TRUCK, CARRYALL 4X2 7 PAX (2320-01-173-6113)	A		-	-	-	0.023	9	0.207	0.023	14	0.319	0.023	25	0.569	-	-	-	0.023	25	0.569
<i>Secondary Distribution</i>																				
AF				-	-		9	0.207		14	0.319		19	0.432		-	-		19	0.432
AFNG				-	-		-	-		-	-		6	0.137		-	-		6	0.137
TRUCK, PICKUP 4X4 1/2 T 4600 & 5799 GVW (2320-00-811-6869)	A		-	-	-	0.026	55	1.455	0.028	32	0.897	0.029	39	1.130	-	-	-	0.029	39	1.130
<i>Secondary Distribution</i>																				
AF				-	-		30	0.794		24	0.673		33	0.956		-	-		33	0.956
AFNG				-	-		22	0.582		5	0.140		4	0.116		-	-		4	0.116
AFR				-	-		3	0.079		3	0.084		2	0.058		-	-		2	0.058
SUV, 4X4 COMPACT 4500 GVW (2320-01-563-7478)	A		-	-	-	0.025	5	0.125	0.025	11	0.280	0.025	16	0.399	-	-	-	0.025	16	0.399

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2						P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles						Aggregated Items Title: Cargo and Utility Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		5	0.125		11	0.280		16	0.399		-	-		16	0.399
VAN, MAINTENANCE UTILITY DELIVERY (2320-01-176-2223)	A		-	-	-	0.031	52	1.634	0.031	65	2.040	0.053	58	3.047	-	-	-	0.053	58	3.047
<i>Secondary Distribution</i>																				
AF				-	-		29	0.910		63	1.977		-	1.227		-	-		-	1.227
AFNG				-	-		4	0.126		-	-		34	1.067		-	-		34	1.067
AFR				-	-		19	0.598		2	0.063		24	0.753		-	-		24	0.753
TRUCK, TRACTOR 44.5G (2320-00-271-1432)	A		-	-	-	0.142	26	3.697	0.135	45	6.073	0.136	37	5.032	-	-	-	0.136	37	5.032
<i>Secondary Distribution</i>																				
AF				-	-		22	3.128		37	4.995		30	4.080		-	-		30	4.080
AFNG				-	-		3	0.427		5	0.674		5	0.680		-	-		5	0.680
AFR				-	-		1	0.142		3	0.404		2	0.272		-	-		2	0.272
TRUCK, VAN PANEL 4X2 (2320-01-013-2754)	A		-	-	-	0.028	35	0.963	0.024	43	1.032	0.027	45	1.215	-	-	-	0.027	45	1.215
<i>Secondary Distribution</i>																				
AF				-	-		26	0.715		43	1.032		43	1.161		-	-		43	1.161
AFNG				-	-		5	0.138		-	-		1	0.027		-	-		1	0.027
AFR				-	-		4	0.110		-	-		1	0.027		-	-		1	0.027
TRUCK, TRACTOR 39.5G (2320-01-341-7627)	A		-	-	-	-	-	-	0.107	3	0.322	0.136	9	1.224	-	-	-	0.136	9	1.224
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	0.322		6	0.816		-	-		6	0.816
AFNG				-	-		-	-		-	-		3	0.408		-	-		3	0.408
TRK 1/2 TON (2320-00-540-1428)	A		-	-	-	0.020	91	1.850	0.022	50	1.100	0.022	114	2.498	-	-	-	0.022	114	2.498
<i>Secondary Distribution</i>																				
AF				-	-		30	0.610		50	1.100		84	1.848		-	-		84	1.848
AFNG				-	-		50	1.016		-	-		18	0.390		-	-		18	0.390
AFR				-	-		11	0.224		-	-		12	0.260		-	-		12	0.260
1/2T 4X4 PU EXT CAB MILTRK (2320-01-483-9971)	A		-	-	-	-	-	-	0.054	2	0.107	0.059	5	0.295	-	-	-	0.059	5	0.295
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.107		2	0.118		-	-		2	0.118
AFNG				-	-		-	-		-	-		3	0.177		-	-		3	0.177

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																	Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2					P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles												Aggregated Items Title: Cargo and Utility Vehicles			
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
TRUCK, COMPACT CREW CAB 4X4 (2320-01-500-5203)	A		-	-	-	0.032	19	0.614	0.016	108	1.724	0.030	46	1.364	-	-	-	0.030	46	1.364
<i>Secondary Distribution</i>																				
AF			-	-	-		16	0.517		108	1.724		42	1.245		-	-		42	1.245
AFNG			-	-	-		-	-		-	-		4	0.119		-	-		4	0.119
AFR			-	-	-		3	0.097		-	-		-	-		-	-		-	-
TRUCK, PICKUP CREW CAB 4X2 (2320-01-504-1443)	A		-	-	-	0.019	43	0.836	0.028	71	1.985	0.028	74	2.043	-	-	-	0.028	74	2.043
<i>Secondary Distribution</i>																				
AF			-	-	-		42	0.808		63	1.764		67	1.850		-	-		67	1.850
AFNG			-	-	-		-	-		3	0.083		7	0.193		-	-		7	0.193
AFR			-	-	-		1	0.028		5	0.138		-	-		-	-		-	-
TRUCK, 1/4 TON 4X2 EXT CAB (2320-01-496-0404)	A		-	-	-	0.026	70	1.825	0.024	65	1.550	0.024	94	2.260	-	-	-	0.024	94	2.260
<i>Secondary Distribution</i>																				
AF			-	-	-		28	0.730		31	0.739		64	1.536		-	-		64	1.536
AFNG			-	-	-		27	0.704		18	0.429		15	0.362		-	-		15	0.362
AFR			-	-	-		15	0.391		16	0.382		15	0.362		-	-		15	0.362
TRK TRAC MSL SPT (2320-00-344-4397)	A		-	-	-	0.180	5	0.900	0.160	5	0.800	0.160	3	0.480	-	-	-	0.160	3	0.480
<i>Secondary Distribution</i>																				
AF			-	-	-		5	0.900		4	0.640		2	0.320		-	-		2	0.320
AFNG			-	-	-		-	-		1	0.160		1	0.160		-	-		1	0.160
TRAILER, BOLSTER (2330-01-657-3338)	A		-	-	-	-	-	-	0.015	2	0.029	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		-	-		2	0.029		-	-		-	-		-	-
12 TON STAKE PLATFORM TRAILER (2330-01-657-3331)	A		-	-	-	0.046	3	0.137	0.046	24	1.099	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		3	0.137		1	0.046		-	-		-	-		-	-
AFNG			-	-	-		-	-		18	0.824		-	-		-	-		-	-
AFR			-	-	-		-	-		5	0.229		-	-		-	-		-	-
TLR FB 3-8 TON (2330-00-014-0494)	A		-	-	-	-	-	-	0.019	4	0.076	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		-	-		4	0.076		-	-		-	-		-	-

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
TRK TRACTOR (2320-01-482-9775)	A		-	-	-	-	-	-	0.183	5	0.915	0.125	1	0.125	-	-	-	0.125	1	0.125
<i>Secondary Distribution</i>																				
AF				-	-		-	-		5	0.915		-	-		-	-		-	-
AFNG				-	-		-	-		-	-		1	0.125		-	-		1	0.125
TRAILER,DETACHABLE GOOSENECK 60TON (2330-00-349-2572)	EA		-	-	-	0.079	12	0.953	0.082	37	3.051	0.083	15	1.245	-	-	-	0.083	15	1.245
<i>Secondary Distribution</i>																				
AF				-	-		12	0.953		15	1.235		15	1.245		-	-		15	1.245
AFNG				-	-		-	-		18	1.486		-	-		-	-		-	-
AFR				-	-		-	-		4	0.330		-	-		-	-		-	-
Subtotal: Uncategorized			-	-	-	-	-	32.483	-	-	50.095	-	-	57.459	-	-	-	-	-	57.459
Total			-	-	-	-	-	32.483	-	-	50.095	-	-	57.459	-	-	-	-	-	57.459

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

Remarks:

FY22 European Defense Initiative funding in the amount of 0.867M will procure 19 vehicles.

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

UNIT COSTS FOR FY22 ARE SUBJECT TO CHANGE.

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 823210 / Joint Light Tactical Vehicle

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	73.026	56.694	97.326	-	97.326	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	73.026	56.694	97.326	-	97.326	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	73.026	56.694	97.326	-	97.326	-	-	-	-	-	-

(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:

FY20 funding totals include 40.999M appropriated for Overseas Contingency Operations.

FY21 funding totals include 26.150M appropriated for Overseas Contingency Operations.

FY22 funding totals include 7.869M requested for Direct War and/or Enduring Requirements.

The Joint Light Tactical Vehicle (JLTV) Family of Vehicles (FoV) has been chosen by the Department of Defense (DOD) as the multi-service (USMC, Army, Navy, and Air Force) tactical vehicle replacement for the HMMWV. The Army has been assigned lead service responsibilities for the JLTV and has established the Army Joint Program Office (JPO). All JLTVs must be acquired through the Army JPO contract. The JLTV provides major operational improvements in Force Protection (FP), payload, mobility, fuel efficiency and reliability, along with the growth potential to meet future mission requirements. The JLTV also has a companion trailer that is available with the vehicle to replace the HMMWV trailer (M1101/M1102).

The USAF investment in JLTVs began in FY17 and FY18 under 823230 - Security and Tactical Vehicles. Starting in FY19 JLTVs will be procured under BPAC 823210. Currently the USAF plans on purchasing 2,093 JLTVs. The USAF JLTVs span three different vehicle variants consisting of 26 different mission configurations and a JLTV trailer. Some mission configurations already exist and others are currently being developed through Work Directives generated and worked through the JPO.

General Purpose (GP) JLTV - The GP JLTV is the base vehicle that carries a 4 man-crew with a payload of 3,500 lbs. Users: ACC, AFMC, AMC, PACAF, USAFE.

Utility (UT) JLTV - The Utility JLTV carries a 2 man crew for cargo delivery or shelter carrier. It supports a payload of 5,100 lbs. Users: ACC, AFMC, AMC, PACAF.

Heavy Guns Carrier (HGC) JLTV - The HGC JLTV carries a 4 man-crew and a Gunner in Turret or Remote Weapon System (RWS). It supports crew served weapons (M-2 or MK-19) with Gunner's Protection Kit or RWS. Users: AETC, AFCENT, AFGSC, AFSPC, AMC, PACAF, USAFE.

JLTV Trailer - The JLTV Trailer is capable of meeting similar mobility characteristics to the prime mover and is capable of safely carrying payload of 5500 lbs. Users: EOD.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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: 823210 / Joint Light Tactical Vehicle
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Contractor Furnished Equipment (CFE) Kits: These are options that come fully installed and integrated into the vehicle during production. CFE kits include, but are not limited to, Armor kits, intercom kit, run flat tires, combat bumpers, and explosively formed projectile protection kits.

Government Furnished Equipment (GFE): There are two types of GFE related to the JLTV, Expansion Kits and Overhead Equipment.

- Expansion Kits: These kits are installed during vehicle production and provide all necessary cabling (power, signal, RF), connectors, and hardware to enable installation of Mission Specific Equipment above and beyond the Contractor furnished Base Vehicle Platform Infrastructure and Baseline Integration Kits. These expansion kits include, but are not limited to, VRC radio kits, CREW-CVRJ kits, DVE kits, and shot detection kits.
- Overhead Equipment: Currently, the only Overhead GFE approved for procurement funds includes the M1114 Turret Ring and Hatch, Objective Gunner Protection Kit (OGPK), Improved Turret Drive System (ITDS), and the Common Remotely Operated Weapon Station (CROWS) systems. The M1114 will apply to all HGC JLTV configurations, while OGPK, ITDS or CROWS applies to their respective HGC configurations.

Field Service Representative (FSR) Support: OEM and/or contractor FSR support is required to provide de-processing (acceptance inspections) and Operator and Maintainer Training when the vehicles are delivered to the user locations. FSRs will may install any Mission Specific Equipment and additional overhead GFE as required by the user.

Work Directives: Studies and engineering tasks are performed by the Army Joint Program Office or OEM engineers to ensure compatibility and operability on any new AF specific requirements that will be added to the JLTV based on user requirements. Work Directives will also be required for any repairs prior to JPO long term repair and maintenance contracts are awarded.

Some vehicles and items in this exhibit are procured with European Defense Initiative funding.

This requirement [or modification] supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D "Audits: audit of financial statements of Department of Defense components by independent external auditors.

In accordance with Section 1815 of the FY 2008 National Defense Authorization (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: 0207588F, 0208047F, 0804731F, 0502831F, 0507831F, 0702831F

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	123	139	153	0	153	-	-	-	-
	Total Obligation Authority	71.438	55.054	94.086	0.000	94.086	-	-	-	-
AFNG	Quantity	3	2	3	0	3	-	-	-	-
	Total Obligation Authority	1.168	1.139	1.643	0.000	1.643	-	-	-	-
AFR	Quantity	1	1	2	0	2	-	-	-	-
	Total Obligation Authority	0.420	0.501	1.597	0.000	1.597	-	-	-	-
Total: Secondary Distribution	Quantity	127	142	158	0	158	-	-	-	-
	Total Obligation Authority	73.026	56.694	97.326	0.000	97.326	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 823210 / Joint Light Tactical Vehicle

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Joint Light Tactical Vehicle				- / -	- / 73.026	- / 56.694	- / 97.326	- / -	- / 97.326
P-40	Total Gross/Weapon System Cost				- / -	- / 73.026	- / 56.694	- / 97.326	- / -	- / 97.326

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

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

Justification:
 FY22 procurement dollars in the amount of 97.326M will procure, but not be limited to, 158 vehicles in support of installation and unit mission requirements for Air Force personnel.
 ---FY22 procurement dollars from above funding includes 2.346M for 8 vehicle requirements as the Air Force resumes base operating support and vehicle support at Joint Region Marianas from the Navy.
 ---FY22 procurement dollars from above funding includes 7.869M for 12 vehicles to include CFE kits, GFE kits and Overhead equipment requirements for Enduring Requirements.
 Quantities are based on current requirements provided by the 441 Vehicle Support Chain Operations Squadron (VSCOS) IAW the process outlined in AFI 24-302, Vehicle Management. The requirements are generated from the priority buy model that is used to support the Planning, Programming, Budgeting and Execution (PPBE) process. The model calculates vehicle requirements by fund year by BPAC using end of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 Quantities reflected on the PDOCs show current requirements for each year supporting Active Duty, Air Force Reserve Center (AFRC), Air National Guard (ANG), Rapid Airfield Damage Repair (RADR), European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.
 Unit Cost is subject to change from year-to-year based on buy quantities and user expansion kit requirements provided by each user community based on mission requirements. Unit cost is also subject to change based on fluctuations in contract pricing.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3						P-1 Line Item Number / Title: 823210 / Joint Light Tactical Vehicle						Aggregated Items Title: Joint Light Tactical Vehicle								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Common Remotely Operating Weapon System (CROWS)	A		-	-	-	-	-	4.959	-	-	4.207	-	-	10.780	-	-	-	-	-	10.780
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	4.959	-	-	4.207	-	-	10.780	-	-	-	-	-	10.780
PMA: CONTRACTOR SERVICES	A		-	-	-	-	-	1.512	-	-	0.786	-	-	0.775	-	-	-	-	-	0.775
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.512	-	-	0.786	-	-	0.775	-	-	-	-	-	0.775
M1114 TURRENT RING	A		-	-	-	-	-	-	-	-	0.965	-	-	2.246	-	-	-	-	-	2.246
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	0.965	-	-	2.221	-	-	-	-	-	2.221
AFR			-	-	-	-	-	-	-	-	-	-	-	0.025	-	-	-	-	-	0.025
TOMA SUPPORT (Tech Orders)	A		-	-	-	-	-	-	-	-	-	-	-	0.019	-	-	-	-	-	0.019
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	0.019	-	-	-	-	-	0.019
Overhead Gunners Protection Kit (OGPK)	A		-	-	-	-	-	2.276	-	-	2.432	-	-	3.792	-	-	-	-	-	3.792
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	2.276	-	-	2.432	-	-	3.492	-	-	-	-	-	3.492
AFR			-	-	-	-	-	-	-	-	-	-	-	0.300	-	-	-	-	-	0.300
FIELD SERVICE REPRESENTATIVE SUPPORT (FSR)	A		-	-	-	-	-	12.748	-	-	3.750	-	-	6.027	-	-	-	-	-	6.027
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	12.748	-	-	3.750	-	-	5.601	-	-	-	-	-	5.601
AFNG			-	-	-	-	-	-	-	-	-	-	-	0.213	-	-	-	-	-	0.213
AFR			-	-	-	-	-	-	-	-	-	-	-	0.213	-	-	-	-	-	0.213
CONTRACTOR FURNISHED EQUIPMENT (CFE)	A		-	-	-	-	-	10.105	-	-	9.679	-	-	13.249	-	-	-	-	-	13.249
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	9.624	-	-	9.150	-	-	12.549	-	-	-	-	-	12.549
AFNG			-	-	-	-	-	0.401	-	-	0.302	-	-	0.350	-	-	-	-	-	0.350
AFR			-	-	-	-	-	0.080	-	-	0.227	-	-	0.350	-	-	-	-	-	0.350
WORK DIRECTIVES	A		-	-	-	-	-	-	-	-	0.325	-	-	0.500	-	-	-	-	-	0.500
<i>Secondary Distribution</i>																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 **P-1 Line Item Number / Title:** 823210 / Joint Light Tactical Vehicle **Aggregated Items Title:** Joint Light Tactical Vehicle

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total			
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
AF				-	-		-		0.325		-		0.500		-		-		-	0.500	
JLTV TRAILER 2330-01-653-9745	A		-	-	-	0.060	6	0.360	0.052	48	2.496	0.053	15	0.795	-	-	-	0.053	15	0.795	
<i>Secondary Distribution</i>																					
AF				-	-		6	0.360		48	2.496		15	0.795		-		-		15	0.795
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.030	-	-	0.015	-	-	0.042	-	-	-	-	-	0.042	
<i>Secondary Distribution</i>																					
AF				-	-		-	0.030		-	0.015		-	0.042		-		-		-	0.042
JLTV, HEAVY GUNS CARRIER (HGC) (2320-01-653-6495)	A		-	-	-	0.260	93	24.180	0.274	88	24.112	0.300	103	30.900	-	-	-	0.300	103	30.900	
<i>Secondary Distribution</i>																					
AF				-	-		92	23.920		87	23.838		102	30.600		-		-		102	30.600
AFR				-	-		1	0.260		1	0.274		1	0.300		-		-		1	0.300
GOVERNMENT FURNISHED EQUIPMENT (GFE) KITS	A		-	-	-	-	-	9.704	-	-	6.354	-	-	12.385	-	-	-	-	-	-	12.385
<i>Secondary Distribution</i>																					
AF				-	-		-	9.624		-	6.050		-	12.056		-		-		-	12.056
AFNG				-	-		-	-		-	0.304		-	0.219		-		-		-	0.219
AFR				-	-		-	0.080		-	-		-	0.110		-		-		-	0.110
JLTV, UTILITY (UT) 2320-01-653-6516	A		-	-	-	0.249	10	2.490	0.260	5	1.300	0.281	26	7.306	-	-	-	0.281	26	7.306	
<i>Secondary Distribution</i>																					
AF				-	-		9	2.241		4	1.040		24	6.744		-		-		24	6.744
AFNG				-	-		1	0.249		1	0.260		2	0.562		-		-		2	0.562
JLTV, GENERAL PURPOSE (GP) 2320-01-653-6557	A		-	-	-	0.259	18	4.662	0.273	1	0.273	0.608	14	8.510	-	-	-	0.608	14	8.510	
<i>Secondary Distribution</i>																					
AF				-	-		16	4.144		-	-		12	7.912		-		-		12	7.912
AFNG				-	-		2	0.518		1	0.273		1	0.299		-		-		1	0.299
AFR				-	-		-	-		-	-		1	0.299		-		-		1	0.299
Subtotal: Uncategorized			-	-	-	-	-	73.026	-	-	56.694	-	-	97.326	-	-	-	-	-	97.326	
Total			-	-	-	-	-	73.026	-	-	56.694	-	-	97.326	-	-	-	-	-	97.326	

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

Remarks:
FY22 European Defense Initiative funding in the amount of 23.129M will procure 37 vehicles plus CFE kits, GFE kits, and overhead requirements.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3	P-1 Line Item Number / Title: 823210 / Joint Light Tactical Vehicle	Aggregated Items Title: Joint Light Tactical Vehicle

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

UNIT COSTS FOR FY22 ARE SUBJECT TO CHANGE.

PMA OTHER CONTRACTOR SERVICES: This funding includes provisions for government contract oversight, technical expertise, and program office support associated with the JLTV program.

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	1.315	0.319	0.488	-	0.488	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	1.315	0.319	0.488	-	0.488	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	1.315	0.319	0.488	-	0.488	-	-	-	-	-	-

(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. Services are no longer procuring HMMWVs as they are being replaced with the Joint Light Tactical Vehicle (BPAC 823210). Instead funding will be used to procure next generation security and tactical vehicles to include the fielding of the Joint All-weather All-Terrain Support Vehicles (JAASV) and Commercial Armored Tactical Vehicle (CATV).

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

Joint All-weather All-Terrain Support Vehicles (JAASV) operates in "otherwise impassable terrain such as marshy conditions, deep snow, lakes, rivers, frozen ice and extreme cold weather as low as minus 50 degrees Fahrenheit. As a tracked, amphibious platform, it will have a light footprint and be transportable by a CH-47, UH-60 or C-130.

Commercial Armored Tactical Vehicle (CATV) is an armored vehicle on a ruggedized off-road platform which allows for customized seating and equipment storage options with a heavy duty upgraded suspension. The increased ground clearance and robust suspension allows for emergency response in rural regions and natural disaster scenarios. The rotating roof hatch and optional Gunner Protection Kit can accommodate weapons mounts for an M249, Mk19, M2 .50 Cal and additional weapons as necessary. The primary user is Global Strike Command.

Guardian Angel Air-Deployable Rescue Vehicle: The Guardian Angel Air-Deployable Rescue Vehicle (GAARV) is an air-deployable surface recovery platform capable of maneuvering over adverse terrain in order to search for and recover isolated personnel and/or equipment. It will provide increased survivability during "outside the wire" personnel recovery operations, more secure transportation capability to the recovery team and injured/isolated personnel from an area of high threat, and necessary training platforms for operators to familiarize themselves with vehicles they utilize in the area of operations. It also provides operators with increased protection from enemy fire and improvised explosive devices. Funding includes, but is not limited to procurement of end items, training, upgrades, spares, Interim Contractor Support (ICS), repairs, deployment packages and returns. This funding request will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity. Due to rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements. On 7 July 2017, ACC/A5/8R terminated the HDT Storm solution to the GAARV requirement. A new solution to the requirement will be developed if/when the GAARV requirement is revalidated. Subsequent funding will fund contract termination and Program Management Administration until a follow-on requirement is identified. Funding for GAARV is in Program Element 0207227F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

This requirement [or modification] supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D "Audits: audit of financial statements of Department of Defense components by independent external auditors.

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 0207227F, 0502831F, 0507831F, 0702831F.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	0	0	6	0	6	-	-	-	-
	Total Obligation Authority	1.171	0.205	0.365	0.000	0.365	-	-	-	-
AFNG	Quantity	11	9	9	0	9	-	-	-	-
	Total Obligation Authority	0.105	0.114	0.123	0.000	0.123	-	-	-	-
AFR	Quantity	4	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.039	0.000	0.000	0.000	0.000	-	-	-	-
Total: Secondary Distribution	Quantity	15	9	15	0	15	-	-	-	-
	Total Obligation Authority	1.315	0.319	0.488	0.000	0.488	-	-	-	-

Justification:

FY22 procurement dollars in the amount of 0.488M will procure, but not be limited to, 15 vehicles in support of installation and unit mission requirements for Air Force personnel.

---FY22 procurement dollars from above funding includes 0.089M for 2 vehicle requirements as the Air Force resumes base operating support and vehicle support at Joint Region Marianas from the Navy.

Quantities are based on current requirements provided by the 441 Vehicle Support Chain Operations Squadron (VSCOS) IAW the process outlined in AFI 24-302, Vehicle Management. The requirements are generated from the priority buy model that is used to support the Planning, Programming, Budgeting and Execution (PPBE) process. The model calculates vehicle requirements by fund year by BPAC using end of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.

Quantities reflected on the PDOCs show current requirements for each year supporting Active Duty, Air Force Reserve Center (AFRC), Air National Guard (ANG), Rapid Airfield Damage Repair (RADR), European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

Unit Cost is subject to change from year-to-year based on buy quantities, CONUS/OCONUS locations, inflation and additional requirements (options required by users). Examples of options include, but are not limited to, specialized trailer towing packages, export (non-Ultra Low Sulfur Diesel) engines, and mission specific specialized attachments for construction vehicles. Unit cost is also subject to change based on fluctuations in contract pricing.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	67.401	94.411	75.694	-	75.694	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	67.401	94.411	75.694	-	75.694	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	67.401	94.411	75.694	-	75.694	-	-	-	-	-	-

(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:

FY20 funding totals include 52.502M appropriated for Overseas Contingency Operations.

FY21 funding totals include 51.254M appropriated for Overseas Contingency Operations.

FY22 funding totals include 12.389M requested for Direct War and/or Enduring Requirements.

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, an assortment of wreckers and refuse trucks, potable and non-potable water distribution trucks, refueling vehicles, deicers, staircase trucks, lavatory service trucks, high reach maintenance trucks, glycol recovery vehicles, disabled patient vehicles, high lift trucks, specialized trailers, fuel trailers, digger derrick trucks, liquid/nitrogen trucks/trailers 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 wreckers are used to move disabled vehicles, haul vehicles or to deploy a heavy duty winch. The refuse trucks in this group include one which tilts and dumps a payload and one which compacts refuse prior to discharge. Aircraft refueling vehicles refuel and defuel all military aircraft. 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.

Some vehicles in this exhibit are procured with European Defense Initiative funding.

This requirement [or modification] supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D "Audits: audit of financial statements of Department of Defense components by independent external auditors.

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 0207142F, 0207597F, 0401319F, 0507831F, 0502831F, 0702831F.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	329	463	402	0	402	-	-	-	-
	Total Obligation Authority	60.339	87.331	68.808	0.000	68.808	-	-	-	-
AFNG	Quantity	43	46	43	0	43	-	-	-	-
	Total Obligation Authority	5.204	5.213	4.990	0.000	4.990	-	-	-	-
AFR	Quantity	16	15	16	0	16	-	-	-	-
	Total Obligation Authority	1.858	1.867	1.896	0.000	1.896	-	-	-	-
Total:	Quantity	388	524	461	0	461	-	-	-	-
Secondary Distribution	Total Obligation Authority	67.401	94.411	75.694	0.000	75.694	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Special Purpose Vehicles				- / -	- / 67.401	- / 94.411	- / 75.694	- / -	- / 75.694
P-40	Total Gross/Weapon System Cost				- / -	- / 67.401	- / 94.411	- / 75.694	- / -	- / 75.694

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

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

Justification:

FY22 procurement dollars in the amount of 75.694M will procure, but not be limited to, 461 vehicles in support of installation and unit mission requirements for Air Force personnel.

---FY22 procurement dollars from above funding includes 1.882M for 8 vehicle requirements as the Air Force resumes base operating support and vehicle support at Joint Region Marianas from the Navy.

---FY22 procurement dollars from above funding includes 12.389M for 80 vehicle requirements for Enduring Requirements.

Quantities are based on current requirements provided by the 441 Vehicle Support Chain Operations Squadron (VSCOS) IAW the process outlined in AFI 24-302, Vehicle Management. The requirements are generated from the priority buy model that is used to support the Planning, Programming, Budgeting and Execution (PPBE) process. The model calculates vehicle requirements by fund year by BPAC using end of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.

Quantities reflected on the PDOCs show current requirements for each year supporting Active Duty, Air Force Reserve Center (AFRC), Air National Guard (ANG), Rapid Airfield Damage Repair (RADR), European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

Unit Cost is subject to change from year-to-year based on buy quantities, CONUS/OCONUS locations, inflation and additional requirements (options required by users). Examples of options include, but are not limited to, specialized trailer towing packages, export (non-Ultra Low Sulfur Diesel) engines, and mission specific specialized attachments for construction vehicles. Unit cost is also subject to change based on fluctuations in contract pricing.

Unit cost increased from previous year data to FY22 on some vehicles due to adding in the 1st Destination Transportation cost (MORDs) which was not being accounted for in the past. Awarded new contracts over the past year for several vehicles where the old contract had expired.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3						P-1 Line Item Number / Title: 823990 / Special Purpose Vehicles						Aggregated Items Title: Special Purpose Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
C5 STAIRCASE TRK (1730-01-602-5661YW)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TRK FUEL AVGAS 3K (2320-01-597-1728)	A		-	-	-	-	-	-	-	-	0.164	3	0.491	-	-	-	0.164	3	0.491	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	3	0.491	-	-	-	-	3	0.491	
TLR CBL REEL W/POLE, 6 TON (2330-01-657-3338)	A		-	-	-	-	-	-	-	-	0.015	4	0.060	-	-	-	0.015	4	0.060	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	3	0.045	-	-	-	-	3	0.045	
AFR			-	-	-	-	-	-	-	-	-	1	0.015	-	-	-	-	1	0.015	
TRK WKR 44M&49999G (2320-1-130-6353)	A		-	-	-	-	-	-	-	-	0.274	3	0.821	-	-	-	0.274	3	0.821	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	3	0.821	-	-	-	-	3	0.821	
HDPLP TRUCK (2320-01-528-8238)	A		-	-	-	-	-	-	-	-	0.350	3	1.050	-	-	-	0.350	3	1.050	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	3	1.050	-	-	-	-	3	1.050	
EOD VEHICLE (2320-01-500-9249)	A		-	-	-	-	-	-	-	-	0.400	1	0.400	-	-	-	0.400	1	0.400	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	1	0.400	-	-	-	-	1	0.400	
TRK HI REA 100FT / OVER (2320-00-486-9951)	A		-	-	-	-	-	-	-	-	0.459	1	0.459	-	-	-	0.459	1	0.459	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	1	0.459	-	-	-	-	1	0.459	
TRK HI LIFT FD-SRVG-ACFT (2320-01-305-6339)	A		-	-	-	-	-	0.205	2	0.409	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	2	0.409	-	-	-	-	-	-	-	-	-	
TLR CBL REEL 10T & OVER (2330-00-420-7079)	A		-	-	-	-	-	0.100	3	0.300	0.142	2	0.285	-	-	-	0.143	2	0.285	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	3	0.300	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																	Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3					P-1 Line Item Number / Title: 823990 / Special Purpose Vehicles										Aggregated Items Title: Special Purpose Vehicles						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total			
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
AFNG				-	-		-	-		-	-		2	0.285		-	-		2	0.285	
TRK TELE MAINT CNTRN 4X4 (2320-01-372-7398)	A		-	-	-		-	-	0.232	1	0.232		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		-	-		1	0.232		-	-		-	-		-	-	
TRK REF CMPTR R-HP (2320-00-833-7514)	A		-	-	-		-	-	0.126	2	0.251	0.125	1	0.125		-	-	0.125	1	0.125	
<i>Secondary Distribution</i>																					
AF				-	-		-	-		2	0.251		1	0.125		-	-		1	0.125	
TRK TEL DIGGER DERRICK (2320-00-455-8464)	A		-	-	-		-	-	0.283	1	0.283	0.308	3	0.924		-	-	0.308	3	0.924	
<i>Secondary Distribution</i>																					
AF				-	-		-	-		1	0.283		2	0.616		-	-		2	0.616	
AFNG				-	-		-	-		-	-		1	0.308		-	-		1	0.308	
TRK RETRIEVER 4X2 (2320-01-454-0723)	A		-	-	0.000		-	-	-	-	-		-	-		-	-		-	-	
TRAC ACFT TWG MB-2 CL II (1740-01-552-9854YW)	A		-	-	-	0.155	30	4.650	0.155	39	6.045	0.158	5	0.790		-	-	-	0.158	5	0.790
<i>Secondary Distribution</i>																					
AF				-	-		30	4.650		39	6.045		5	0.790		-	-		5	0.790	
HI-REACH TRK 55 FT 4X4 (2320-01-544-3637YW)	A		-	-	-	0.572	1	0.572	0.253	1	0.253	0.253	1	0.253		-	-	-	0.253	1	0.253
<i>Secondary Distribution</i>																					
AF				-	-		1	0.572		1	0.253		1	0.253		-	-		1	0.253	
TRK TK A/ S32A-24 250 GAL (2320-00-089-8979)	A		-	-	-	0.073	2	0.146	0.073	2	0.145		-	-		-	-		-	-	
<i>Secondary Distribution</i>																					
AF				-	-		2	0.146		2	0.145		-	-		-	-		-	-	
TRK HI REA 30&59FT (2320-00-995-5610YW)	A		-	-	-	0.268	5	1.340	0.209	5	1.046	0.217	3	0.651		-	-	-	0.217	3	0.651
<i>Secondary Distribution</i>																					
AF				-	-		5	1.340		5	1.046		3	0.651		-	-		3	0.651	
HI REACH MAINT PLATFORM (2320-01-249-0097YW)	A		-	-	-	-	-	-	0.684	1	0.684	0.684	3	2.052		-	-	-	0.684	3	2.052
<i>Secondary Distribution</i>																					

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 **P-1 Line Item Number / Title:** 823990 / Special Purpose Vehicles **Aggregated Items Title:** Special Purpose Vehicles

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AF				-	-		-	-	1	0.684		2	1.368		-	-		2	1.368	
AFNG				-	-		-	-	-	-		1	0.684		-	-		1	0.684	
TRK WKR HYD TYP1 32000GVW (2320-01-303-3010)	A		-	-	-	0.128	1	0.128	0.145	1	0.145	0.153	4	0.611	-	-	-	0.153	4	0.611
<i>Secondary Distribution</i>																				
AF				-	-		1	0.128		1	0.145		3	0.458		-	-		3	0.458
AFNG				-	-		-	-		-	-		1	0.153		-	-		1	0.153
TRK MAINT TP UTIL 10000G (2320-01-343-7375)	A		-	-	-	-	-	-	0.037	2	0.073	0.037	8	0.297	-	-	-	0.037	8	0.297
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.073		7	0.260		-	-		7	0.260
AFNG				-	-		-	-		-	-		1	0.037		-	-		1	0.037
TRK, WRECKER TILT-BED (2320-01-380-4755)	A		-	-	-	0.095	4	0.380	0.108	2	0.216	0.108	2	0.216	-	-	-	0.108	2	0.216
<i>Secondary Distribution</i>																				
AF				-	-		4	0.380		2	0.216		2	0.216		-	-		2	0.216
TRK MOBILE X-RAY (2320-01-563-7052)	A		-	-	-	-	-	-	1.200	3	3.600	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	3.600		-	-		-	-		-	-
MOBILE MAINTENANCE TRUCK W/CRANE (2320-01-644-1450)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRLR FUEL SRVG 600 GAL (2330-00-289-8934)	A		-	-	-	-	-	-	0.034	2	0.067	0.036	4	0.144	-	-	-	0.036	4	0.144
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.067		3	0.108		-	-		3	0.108
AFNG				-	-		-	-		-	-		1	0.036		-	-		1	0.036
TRK MAINT EXT CAB 4X4 (2320-01-513-8386)	A		-	-	-	-	-	-	0.053	3	0.159	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	0.159		-	-		-	-		-	-
TRK TANK FUEL R-11 HMS (2320-01-626-1177YW)	A		-	-	-	-	-	-	0.237	25	5.927	0.265	19	5.044	-	-	-	0.265	19	5.044
<i>Secondary Distribution</i>																				

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3	P-1 Line Item Number / Title: 823990 / Special Purpose Vehicles	Aggregated Items Title: Special Purpose Vehicles
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AF				-	-		-	-	25	5.927		15	3.982		-	-		15	3.982	
AFNG				-	-		-	-			4	1.062		-	-			4	1.062	
4000GAL DEICER (1730-01-605-7637YW)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TRAC ACFT TWG MB-4 (1740-00-580-7990YW)	A		-	-		0.105	26	2.732	0.110	34	3.740	0.121	30	3.631	-	-	-	0.121	30	3.631
<i>Secondary Distribution</i>																				
AF				-	-		24	2.522		34	3.740		26	3.146		-	-		26	3.146
AFNG				-	-		-	-		-	-		3	0.364		-	-		3	0.364
AFR				-	-		2	0.210		-	-		1	0.121		-	-		1	0.121
TOW TRACTOR, MB-2 (1740-00-143-8464YW)	A		-	-		0.139	8	1.112	0.139	19	2.641	0.148	13	1.925	-	-	-	0.148	13	1.925
<i>Secondary Distribution</i>																				
AF				-	-		4	0.556		18	2.502		9	1.333		-	-		9	1.333
AFNG				-	-		2	0.278		1	0.139		2	0.296		-	-		2	0.296
AFR				-	-		2	0.278		-	-		2	0.296		-	-		2	0.296
FLIGHT LINE TOW TRACTOR, 4X2 (1740-01-068-8945YW)	A		-	-		0.062	78	4.868	0.069	98	6.749	0.069	121	8.351	-	-	-	0.069	121	8.351
<i>Secondary Distribution</i>																				
AF				-	-		73	4.557		67	4.625		109	7.521		-	-		109	7.521
AFNG				-	-		2	0.124		24	1.644		7	0.484		-	-		7	0.484
AFR				-	-		3	0.187		7	0.480		5	0.346		-	-		5	0.346
TRUCK, MAINTENANCE 3/4T 4X4 (2320-00-541-1714)	A		-	-		0.035	18	0.627	0.038	14	0.526	0.038	17	0.642	-	-	-	0.038	17	0.642
<i>Secondary Distribution</i>																				
AF				-	-		8	0.279		9	0.338		8	0.304		-	-		8	0.304
AFNG				-	-		10	0.348		3	0.113		7	0.263		-	-		7	0.263
AFR				-	-		-	-		2	0.075		2	0.075		-	-		2	0.075
TRUCK, TELEPHONE MAINT STD UTIL 4x2 (2320-00-801-9193)	A		-	-		0.030	16	0.485	0.030	16	0.484	0.033	28	0.922	-	-	-	0.033	28	0.922
<i>Secondary Distribution</i>																				
AF				-	-		7	0.212		14	0.424		21	0.693		-	-		21	0.693
AFNG				-	-		5	0.152		1	0.030		6	0.196		-	-		6	0.196
AFR				-	-		4	0.121		1	0.030		1	0.033		-	-		1	0.033

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3						P-1 Line Item Number / Title: 823990 / Special Purpose Vehicles						Aggregated Items Title: Special Purpose Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
SEMI-TRL 8000 GAL FUEL TANK (2330-00-844-1684)	A		-	-	-	-	-	-	0.060	1	0.060	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.060		-	-		-	-		-	
TRK TANK 1200G 4X2 (2320-00-177-6777)	A		-	-	-	0.130	4	0.518	0.138	12	1.658	0.138	12	1.656	-	-	-	0.138	12	1.656
<i>Secondary Distribution</i>																				
AF				-	-		4	0.518		12	1.658		10	1.380		-	-		10	1.380
AFR				-	-		-	-		-	-		2	0.276		-	-		2	0.276
TRK TANK 1200G 4X4 (2320-00-177-6778)	A		-	-	-	0.152	5	0.760	0.159	20	3.179	0.159	7	1.113	-	-	-	0.159	7	1.113
<i>Secondary Distribution</i>																				
AF				-	-		3	0.456		16	2.545		7	1.113		-	-		7	1.113
AFNG				-	-		2	0.304		4	0.634		-	-		-	-		-	-
TRK HI-LIFT 9TON (2320-00-540-3991)	A		-	-	-	-	-	-	0.288	3	0.865	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		3	0.865		-	-		-	-		-	-
TRK MAINT TEL 4DR (2320-00-451-2184)	A		-	-	-	0.034	12	0.412	0.037	3	0.112	0.037	9	0.335	-	-	-	0.037	9	0.335
<i>Secondary Distribution</i>																				
AF				-	-		7	0.240		3	0.112		5	0.186		-	-		5	0.186
AFNG				-	-		5	0.172		-	-		4	0.149		-	-		4	0.149
LARGE CAPACITY REFUELER VEHICLE (LCRV) (2320-01-592-4114YW)	A		-	-	-	0.675	1	0.675	-	-	-	0.715	1	0.715	-	-	-	0.715	1	0.715
<i>Secondary Distribution</i>																				
AF				-	-		1	0.675		-	-		1	0.715		-	-		1	0.715
TRK TNK FUEL 6000GAL R-11 (2320-00-433-5695)	A		-	-	-	0.212	93	19.747	0.245	100	24.502	0.256	73	18.688	-	-	-	0.256	73	18.688
<i>Secondary Distribution</i>																				
AF				-	-		78	16.562		86	21.072		70	17.920		-	-		70	17.920
AFNG				-	-		10	2.123		10	2.450		2	0.512		-	-		2	0.512
AFR				-	-		5	1.062		4	0.980		1	0.256		-	-		1	0.256
TRUCK, EXTENDED REACH DEICER (1730-01-495-5449YW)	A		-	-	-	0.676	16	10.812	0.676	5	3.381	0.740	2	1.480	-	-	-	0.740	2	1.480

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3						P-1 Line Item Number / Title: 823990 / Special Purpose Vehicles						Aggregated Items Title: Special Purpose Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		16	10.812		5	3.381		2	1.480		-	-		2	1.480
TRK MNT DIGGER DERRICK (2320-01-397-7528)	A		-	-	-	0.305	1	0.305	0.321	7	2.247	0.179	1	0.179	-	-	-	0.179	1	0.179
<i>Secondary Distribution</i>																				
AF				-	-		1	0.305		7	2.247		1	0.179		-	-		1	0.179
CONTRACT MAINTENANCE TRUCK (2320-01-590-4213YW)	A		-	-	-	-	-	-	0.144	18	2.595	0.146	5	0.732	-	-	-	0.146	5	0.732
<i>Secondary Distribution</i>																				
AF				-	-		-	-		18	2.595		5	0.732		-	-		5	0.732
2000GAL DEICER (1730-01-605-7636YW)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.010	-	-	0.017	-	-	0.020	-	-	-	-	-	0.020
<i>Secondary Distribution</i>																				
AF				-	-		-	0.010		-	0.017		-	0.020		-	-		-	0.020
PMA CONTRACTOR SERVICES	A		-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	0.500		-	-		-	-		-	-		-	-
STAIRCASE TRK (1730-01-601-8086YW)	A		-	-	-	0.156	5	0.780	0.161	17	2.738	0.161	7	1.127	-	-	-	0.161	7	1.127
<i>Secondary Distribution</i>																				
AF				-	-		4	0.624		17	2.738		6	0.966		-	-		6	0.966
AFNG				-	-		1	0.156		-	-		1	0.161		-	-		1	0.161
LAVATORY SERVICE TRK (1730-00-981-7605YW)	A		-	-	-	0.157	5	0.783	0.224	11	2.465	0.253	4	1.012	-	-	-	0.253	4	1.012
<i>Secondary Distribution</i>																				
AF				-	-		3	0.470		11	2.465		4	1.012		-	-		4	1.012
AFNG				-	-		2	0.313		-	-		-	-		-	-		-	-
TRAC ACFT TOW (1740-01-367-9485YW)	A		-	-	-	0.354	16	5.666	0.445	19	8.455	0.438	19	8.322	-	-	-	0.438	19	8.322
<i>Secondary Distribution</i>																				
AF				-	-		14	4.958		19	8.455		19	8.322		-	-		19	8.322
AFNG				-	-		2	0.708		-	-		-	-		-	-		-	-
TRK REFRGR 4X2 (2320-00-770-4467)	A		-	-	-	0.125	8	1.000	0.107	2	0.214	0.129	2	0.258	-	-	-	0.129	2	0.258

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 **P-1 Line Item Number / Title:** 823990 / Special Purpose Vehicles **Aggregated Items Title:** Special Purpose Vehicles

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		8	1.000		2	0.214		2	0.258		-	-		2	0.258
TRK HYDRANT FUEL (2320-01-125-2481)	A		-	-	-	0.302	3	0.906	0.302	10	3.023	0.302	18	5.442	-	-	-	0.302	18	5.442
<i>Secondary Distribution</i>																				
AF				-	-		3	0.906		9	2.721		18	5.442		-	-		18	5.442
AFR				-	-		-	-		1	0.302		-	-		-	-		-	-
STLR TK CG 38 CYL & UNDER (2330-00-995-5613)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FFTT, 4X4 (1740-01-452-4117YW)	A		-	-	-	0.065	16	1.039	0.068	10	0.678	0.075	15	1.125	-	-	-	0.075	15	1.125
<i>Secondary Distribution</i>																				
AF				-	-		15	0.974		7	0.475		15	1.125		-	-		15	1.125
AFNG				-	-		1	0.065		3	0.203		-	-		-	-		-	-
DEICER TRK MOUNTED (1730-00-555-6205YW)	A		-	-	-	0.461	14	6.448	0.425	10	4.247	0.478	7	3.346	-	-	-	0.478	7	3.346
<i>Secondary Distribution</i>																				
AF				-	-		13	5.987		10	4.247		6	2.868		-	-		6	2.868
AFNG				-	-		1	0.461		-	-		-	-		-	-		-	-
AFR				-	-		-	-		-	-		1	0.478		-	-		1	0.478
Subtotal: Uncategorized			-	-	-	-	-	67.401	-	-	94.411	-	-	75.694	-	-	-	-	-	75.694
Total			-	-	-	-	-	67.401	-	-	94.411	-	-	75.694	-	-	-	-	-	75.694

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

Remarks:
 FY22 European Defense Initiative funding in the amount of 14.668M will procure 67 vehicles.
 Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.
 UNIT COSTS FOR FY22 ARE SUBJECT TO CHANGE.
 PMA OTHER CONTRACTOR SERVICES: This funding includes provisions for government contract oversight, technical expertise, and program office support for contracts on all aircraft tow vehicles, refuelers, staircase trucks, and deicers.
 PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	45.256	33.524	12.525	-	12.525	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	45.256	33.524	12.525	-	12.525	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	45.256	33.524	12.525	-	12.525	-	-	-	-	-	-

(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:

FY20 funding totals include 16.652M appropriated for Overseas Contingency Operations.

FY21 funding totals include 24.903M appropriated for Overseas Contingency Operations.

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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
Line Item MDAP/MAIS Code: N/A		

-- 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.

-- 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 hand line 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.

Some vehicles in this exhibit are procured with European Defense Initiative funding.

"This requirement [or modification] supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D "Audits: audit of financial statements of Department of Defense components by independent external auditors.

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 0702831F, 0901279F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Fire Fighting/Crash Rescue Vehicles				- / -	- / 45.256	- / 33.524	- / 12.525	- / -	- / 12.525
P-40	Total Gross/Weapon System Cost				- / -	- / 45.256	- / 33.524	- / 12.525	- / -	- / 12.525

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

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

Justification:

FY22 procurement dollars in the amount of 12.525M will procure, but not be limited to, 25 vehicles in support of installation and unit mission requirements for Air Force personnel.

---FY22 procurement dollars from above funding includes 1.147M for 3 vehicle requirements as the Air Force resumes base operating support and vehicle support at Joint Region Marianas from the Navy.

Quantities are based on current requirements provided by the 441 Vehicle Support Chain Operations Squadron (VSCOS) IAW the process outlined in AFI 24-302, Vehicle Management. The requirements are generated from the priority buy model that is used to support the Planning, Programming, Budgeting and Execution (PPBE) process. The model calculates vehicle requirements by fund year by BPAC using end of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.

Quantities reflected on the PDOCs show current requirements for each year supporting Active Duty, Air Force Reserve Center (AFRC), Air National Guard (ANG), Rapid Airfield Damage Repair (RADR), European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

Unit Cost is subject to change from year-to-year based on buy quantities, CONUS/OCONUS locations, inflation and additional requirements (options required by users). Examples of options include, but are not limited to, export engine (non-Ultra Low Sulfur Diesel), Winterization packages, Tire Chains, Pump (Side or Top), Hose bed (Crosslay or Deadlay), Altitude, Platform Height, Extended Bumper, Air Foam, Cascade Air, and Turret.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 4						P-1 Line Item Number / Title: 824010 / Fire Fighting/Crash Rescue Vehicles						Aggregated Items Title: Fire Fighting/Crash Rescue Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
TRUCK, AERIAL P-21 4210-01-057-0696	A		-	-	-	-	-	-	0.854	1	0.854	-	-	-	-	-	-	-	-	
TRK FFGT 1000G ARFF P-19C AIR TRANSPORTABLE (4210-01-671-4966)	A		-	-	-	0.593	10	5.930	-	-	-	0.593	1	0.593	-	-	-	0.593	1	0.593
TRUCK, PUMPER 4X2 P-22 4210-00-224-4564	A		-	-	-	0.454	9	4.086	0.503	1	0.503	0.517	2	1.034	-	-	-	0.517	2	1.034
TRUCK, PUMPER 4X4 P-24 4210-00-233-1538	A		-	-	-	0.462	11	5.082	0.463	6	2.778	0.540	6	3.240	-	-	-	0.540	6	3.240
TRK FIRE CRS STRIKER 4210-00-702-6801	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TRUCK, WATER TANKER P-26 4210-01-356-4907	A		-	-	-	0.323	14	4.522	0.334	5	1.670	0.383	3	1.148	-	-	-	0.383	3	1.148
VEHICLE, MEDIUM RESCUE P-30 4210-01-452-5121	A		-	-	-	0.293	7	2.051	0.293	3	0.879	0.315	2	0.630	-	-	-	0.315	2	0.630
TRUCK, QUINT P-33 4210-01-500-1083	A		-	-	-	-	-	-	-	-	-	0.650	2	1.300	-	-	-	0.650	2	1.300
TRUCK, WILDLAND P-29 4210-01-483-1025	A		-	-	-	0.419	5	2.095	0.318	4	1.272	0.364	2	0.729	-	-	-	0.365	2	0.729
TRUCK, QUICK ATTACK P-34 4210-01-553-4534	A		-	-	-	0.353	1	0.353	-	-	-	0.352	1	0.352	-	-	-	0.352	1	0.352
TRUCK, HAZMAT FIRE FIGHTING P31 4210-01-396-5219	A		-	-	-	0.435	5	2.175	0.527	1	0.527	0.507	2	1.014	-	-	-	0.507	2	1.014
TRUCK, ARFF P19UHP 4210-01-608-7285	A		-	-	-	0.653	8	5.224	0.661	3	1.983	0.642	2	1.284	-	-	-	0.642	2	1.284
TRK FIRE P23 4210-01-625-9765	A		-	-	-	-	-	-	0.829	3	2.487	-	-	-	-	-	-	-	-	-
TRUCK, ARFF P23UHP 4210-01-608-7287	A		-	-	-	0.686	20	13.720	0.707	29	20.503	0.707	1	0.707	-	-	-	0.707	1	0.707
TRUCK, HAZMAT FIRE FIGHTING 4X4 4210-01-497-6245	A		-	-	-	-	-	-	-	-	-	0.479	1	0.479	-	-	-	0.479	1	0.479
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.018	-	-	0.068	-	-	0.015	-	-	-	-	-	0.015

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 4	P-1 Line Item Number / Title: 824010 / Fire Fighting/Crash Rescue Vehicles	Aggregated Items Title: Fire Fighting/Crash Rescue Vehicles
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Uncategorized</i>			-	-	-	-	-	45.256	-	-	33.524	-	-	12.525	-	-	-	-	-	-
Total			-	-	-	-	-	45.256	-	-	33.524	-	-	12.525	-	-	-	-	-	-

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

Remarks:
 FY22 European Defense Initiative funding in the amount of 2.982M will procure 6 vehicles.
 Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.
 UNIT COSTS FOR FY22 ARE SUBJECT TO CHANGE.
 PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	28.770	27.064	34.933	-	34.933	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	28.770	27.064	34.933	-	34.933	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	28.770	27.064	34.933	-	34.933	-	-	-	-	-	-

(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:

FY20 funding totals include 2.944M appropriated for Overseas Contingency Operations.

FY21 funding totals include 14.167M appropriated for Overseas Contingency Operations.

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

Locomotive procurement is accomplished on an as needed basis to assist in DoD's mission to replace the ones nearing end of service and to modernize the aging railroad infrastructure.

"This requirement [or modification] supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D "Audits: audit of financial statements of Department of Defense components by independent external auditors.

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: 0207142F, 0207597F, 0208028F, 0507831F, 0702831F.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	287	127	192	0	192	-	-	-	-
	Total Obligation Authority	27.694	25.750	32.066	0.000	32.066	-	-	-	-
AFNG	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force							Date: May 2021		
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 / Materials Handling Vehicles				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A									

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AFR	Quantity	17	25	39	0	39	-	-	-	-
	Total Obligation Authority	1.076	1.314	2.867	0.000	2.867	-	-	-	-
Total: Secondary Distribution	Quantity	304	152	231	0	231	-	-	-	-
	Total Obligation Authority	28.770	27.064	34.933	0.000	34.933	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 / Materials Handling Vehicles

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Materials Handling Vehicles				- / -	- / 28.770	- / 27.064	- / 34.933	- / -	- / 34.933
P-40	Total Gross/Weapon System Cost				- / -	- / 28.770	- / 27.064	- / 34.933	- / -	- / 34.933

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

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

Justification:

FY22 procurement dollars in the amount of 34.933M will procure, but not be limited to, 231 vehicles in support of installation and unit mission requirements for Air Force personnel.

---FY22 procurement dollars from above funding includes 1.286M for 10 vehicle requirements as the Air Force resumes base operating support and vehicle support at Joint Region Marianas from the Navy.

---FY22 procurement dollars from above funding includes 0.641M for 13 vehicle requirements for Enduring Requirements.

Quantities are based on current requirements provided by the 441 Vehicle Support Chain Operations Squadron (VSCOS) IAW the process outlined in AFI 24-302, Vehicle Management. The requirements are generated from the priority buy model that is used to support the Planning, Programming, Budgeting and Execution (PPBE) process. The model calculates vehicle requirements by fund year by BPAC using end of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.

Quantities reflected on the PDOCs show current requirements for each year supporting Active Duty, Air Force Reserve Center (AFRC), Air National Guard (ANG), Rapid Airfield Damage Repair (RADR), European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

Unit Cost is subject to change from year-to-year based on buy quantities, CONUS/OCONUS locations, inflation and additional requirements (options required by users). Examples of options include, but are not limited to, specialized trailer towing packages, export (non-Ultra Low Sulfur Diesel) engines, and mission specific specialized attachments for construction vehicles. Unit cost is also subject to change based on fluctuations in contract pricing.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 5						P-1 Line Item Number / Title: 825990 / Materials Handling Vehicles						Aggregated Items Title: Materials Handling Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
FORKLIFT, 4K ELEC NARI 001813113	A		-	-	-	-	-	-	0.034	1	0.034	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		1	0.034		-	-		-	-		-	
Halvorsen 25K Loader - ECAOS/EDI only (3930-01-466-3515CT)	A		-	-	-	-	-	-	0.875	8	7.000	0.936	5	4.680	-	-	-	0.936	5	4.680
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		8	7.000		5	4.680		-	-		5	4.680
TRK FL DED 4000# PT (3930-01-188-3585)	A		-	-	-	0.050	1	0.050	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.050		-	-		-	-		-	-		-	-
FORKLIFT, 4K ELECTRIC STANDARD 000539175	A		-	-	-	-	-	-	-	-	-	0.051	7	0.355	-	-	-	0.051	7	0.355
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		7	0.355		-	-		7	0.355
FORKLIFT, 2K ELECTRIC STANDARD 006782580	A		-	-	-	0.033	6	0.198	0.031	2	0.062	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		6	0.198		1	0.031		-	-		-	-		-	-
AFR			-	-	-	-	-	-	-	1	0.031		-	-		-	-		-	-
FORKLIFT, 4K DED 010130338	A		-	-	-	0.046	28	1.288	0.046	12	0.547	0.047	15	0.705	-	-	-	0.047	15	0.705
<i>Secondary Distribution</i>																				
AF			-	-	-		22	1.012		7	0.319		10	0.470		-	-		10	0.470
AFR			-	-	-		6	0.276		5	0.228		5	0.235		-	-		5	0.235
FORKLIFT, 4K COMMERCIAL 014330885	A		-	-	-	0.044	22	0.968	0.044	7	0.308	0.044	12	0.528	-	-	-	0.044	12	0.528
<i>Secondary Distribution</i>																				
AF			-	-	-		22	0.968		3	0.132		6	0.264		-	-		6	0.264
AFR			-	-	-		-	-		4	0.176		6	0.264		-	-		6	0.264
FORKLIFT, 15K COMMERCIAL 010471597	A		-	-	-	0.084	5	0.420	0.086	2	0.172	0.086	8	0.690	-	-	-	0.086	8	0.690

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 5						P-1 Line Item Number / Title: 825990 / Materials Handling Vehicles						Aggregated Items Title: Materials Handling Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		5	0.420		2	0.172		5	0.431		-	-		5	0.431
AFR				-	-		-	-		-	-		3	0.259		-	-		3	0.259
FORKLIFT, 6K RT 008792157	A		-	-	-	0.125	1	0.125	0.125	1	0.125	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		1	0.125		1	0.125		-	-		-	-		-	-
TRUCK MOUNTED CONVEYOR BELT 000195630	A		-	-	-	-	-	-	-	-	-	0.076	2	0.152	-	-	-	0.076	2	0.152
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		2	0.152		-	-		2	0.152
TRUCK, FORKLIFT NARROW AISLE 6K 014214083	A		-	-	-	0.145	6	0.870	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		6	0.870		-	-		-	-		-	-		-	-
FORKLIFT, 6K DED 010525219	A		-	-	-	0.054	26	1.404	0.054	23	1.239	0.054	36	1.944	-	-	-	0.054	36	1.944
<i>Secondary Distribution</i>																				
AF				-	-		26	1.404		19	1.023		33	1.782		-	-		33	1.782
AFR				-	-		-	-		4	0.216		3	0.162		-	-		3	0.162
4K AT 23.5FT RT BOOM FL 012104756	A		-	-	-	0.252	11	2.772	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		11	2.772		-	-		-	-		-	-		-	-
FORKLIFT, 6K COMMERCIAL 014330887	A		-	-	-	0.045	30	1.350	0.045	7	0.318	0.045	14	0.636	-	-	-	0.045	14	0.636
<i>Secondary Distribution</i>																				
AF				-	-		30	1.350		3	0.136		9	0.409		-	-		9	0.409
AFR				-	-		-	-		4	0.182		5	0.227		-	-		5	0.227
FORKLIFT, FAT 10K AT 004889695	A		-	-	-	-	-	-	-	-	-	0.202	17	3.434	-	-	-	0.202	17	3.434
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		13	2.626		-	-		13	2.626
AFR				-	-		-	-		-	-		4	0.808		-	-		4	0.808
FORKLIFT, 10K STANDARD 008566897	A		-	-	-	0.092	112	10.321	0.092	47	4.313	0.095	19	1.803	-	-	-	0.095	19	1.803
<i>Secondary Distribution</i>																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 5 **P-1 Line Item Number / Title:** 825990 / Materials Handling Vehicles **Aggregated Items Title:** Materials Handling Vehicles

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AF				-	-		105	9.677		44	4.037		14	1.330		-	-		14	1.330
AFR				-	-		7	0.644		3	0.276		5	0.473		-	-		5	0.473
FORKLIFT, 3K ELECTRIC 011022185	A		-	-	-	0.025	1	0.025	-	-	-	0.025	3	0.075	-	-	-	0.025	3	0.075
<i>Secondary Distribution</i>																				
AF				-	-		1	0.025		-	-		3	0.075		-	-		3	0.075
FORKLIFT, 6K ELECTRIC 010471157	A		-	-	-	0.039	19	0.741	-	-	-	0.046	6	0.276	-	-	-	0.046	6	0.276
<i>Secondary Distribution</i>																				
AF				-	-		15	0.585		-	-		4	0.184		-	-		4	0.184
AFR				-	-		4	0.156		-	-		2	0.092		-	-		2	0.092
10K 55' REACH TELEHANDLER 015769312	A		-	-	-	0.208	20	4.160	0.222	15	3.335	0.222	29	6.449	-	-	-	0.222	29	6.449
<i>Secondary Distribution</i>																				
AF				-	-		20	4.160		15	3.335		29	6.449		-	-		29	6.449
4K WHSE TRAC 010070115	A		-	-	-	0.057	7	0.399	0.051	13	0.665	0.058	13	0.752	-	-	-	0.058	13	0.752
<i>Secondary Distribution</i>																				
AF				-	-		7	0.399		9	0.460		7	0.405		-	-		7	0.405
AFR				-	-		-	-		4	0.205		6	0.347		-	-		6	0.347
FORKLIFT, 50K AT CNTR HD 013073658	A		-	-	-	-	-	-	0.746	4	2.983	0.723	2	1.447	-	-	-	0.724	2	1.447
<i>Secondary Distribution</i>																				
AF				-	-		-	-		4	2.983		2	1.447		-	-		2	1.447
F/L 100K REACH STACKER 014958475	A		-	-	-	0.475	6	2.850	0.486	5	2.429	0.485	2	0.971	-	-	-	0.486	2	0.971
<i>Secondary Distribution</i>																				
AF				-	-		6	2.850		5	2.429		2	0.971		-	-		2	0.971
FORKLIFT, 25K 013904562	A		-	-	-	0.234	3	0.702	0.696	5	3.480	0.254	11	2.795	-	-	-	0.254	11	2.795
<i>Secondary Distribution</i>																				
AF				-	-		3	0.702		5	3.480		11	2.795		-	-		11	2.795
FORKLIFT, TRUCK ELEC NARI 3000# 011028906	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.127	-	-	0.054	-	-	0.022	-	-	-	-	-	0.022
<i>Secondary Distribution</i>																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 5 **P-1 Line Item Number / Title:** 825990 / Materials Handling Vehicles **Aggregated Items Title:** Materials Handling Vehicles

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AF				-	-		-	0.127		-	0.054		-	0.022		-	-		-	0.022
FORKLIFT, TRUCK AT LGE CAP 13K 011260457	A		-	-	-	-	-	-	-	-	-	0.241	30	7.219	-	-	-	0.241	30	7.219
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		30	7.219		-	-		30	7.219
Subtotal: Uncategorized			-	-	-	-	-	28.770	-	-	27.064	-	-	34.933	-	-	-	-	-	34.933
Total			-	-	-	-	-	28.770	-	-	27.064	-	-	34.933	-	-	-	-	-	34.933

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

Remarks:

FY22 European Defense Initiative funding in the amount of 7.615M will procure 26 vehicles.

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

UNIT COSTS FOR FY22 ARE SUBJECT TO CHANGE.

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 And Cleaning Equ
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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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	7.412	11.836	9.134	-	9.134	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	7.412	11.836	9.134	-	9.134	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	7.412	11.836	9.134	-	9.134	-	-	-	-	-	-

(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:

FY20 funding totals include 3.753M appropriated for Overseas Contingency Operations.

FY21 funding totals include 5.759M appropriated for 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.

"This requirement [or modification] supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D "Audits: audit of financial statements of Department of Defense components by independent external auditors.

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: 0208028F, 0502831F, 0507831F, 0702831F.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF									
Quantity	33	40	31	0	31	-	-	-	-
Total Obligation Authority	7.000	10.190	8.654	0.000	8.654	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 And Cleaning Equ
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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

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AFNG	Quantity	1	3	3	0	3	-	-	-	-
	Total Obligation Authority	0.335	0.327	0.326	0.000	0.326	-	-	-	-
AFR	Quantity	1	5	2	0	2	-	-	-	-
	Total Obligation Authority	0.077	1.319	0.154	0.000	0.154	-	-	-	-
Total: Secondary Distribution	Quantity	35	48	36	0	36	-	-	-	-
	Total Obligation Authority	7.412	11.836	9.134	0.000	9.134	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 And Cleaning Equ

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Runway Snow Remov And Cleaning Equ				- / -	- / 7.412	- / 11.836	- / 9.134	- / -	- / 9.134
P-40	Total Gross/Weapon System Cost				- / -	- / 7.412	- / 11.836	- / 9.134	- / -	- / 9.134

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

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

Justification:

FY22 procurement dollars in the amount of 9.134M will procure, but not be limited to, 36 vehicles in support of installation and unit mission requirements for Air Force personnel.

---FY22 procurement dollars from above funding includes 1.210M for 9 vehicle requirements for Enduring Requirements.

Quantities are based on current requirements provided by the 441 Vehicle Support Chain Operations Squadron (VSCOS) IAW the process outlined in AFI 24-302, Vehicle Management. The requirements are generated from the priority buy model that is used to support the Planning, Programming, Budgeting and Execution (PPBE) process. The model calculates vehicle requirements by fund year by BPAC using end of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.

Quantities reflected on the PDOCs show current requirements for each year supporting Active Duty, Air Force Reserve Center (AFRC), Air National Guard (ANG), Rapid Airfield Damage Repair (RADR), European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

Unit Cost is subject to change from year-to-year based on buy quantities, CONUS/OCONUS locations, inflation and additional requirements (options required by users). Examples of options include, but are not limited to, specialized trailer towing packages, export (non-Ultra Low Sulfur Diesel) engines, and mission specific specialized attachments for construction vehicles. Unit cost is also subject to change based on fluctuations in contract pricing.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826210 / Runway Snow Remov And Cleaning Equ						Aggregated Items Title: Runway Snow Remov And Cleaning Equ								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
CLEANER, VAC MULTIPURPOSE (2438)	A		-	-	-	0.173	17	2.941	0.173	12	2.076	0.172	14	2.408	-	-	-	0.172	14	2.408
<i>Secondary Distribution</i>																				
AF			-	-	-		17	2.941		10	1.730		13	2.236		-	-		13	2.236
AFNG			-	-	-		-	-		1	0.173		1	0.172		-	-		1	0.172
AFR			-	-	-		-	-		1	0.173		-	-		-	-		-	-
RAPID RUNWAY REPAIR DIRT SWEEPER (1997)	A		-	-	-	0.077	8	0.616	0.077	19	1.463	0.077	9	0.693	-	-	-	0.077	9	0.693
<i>Secondary Distribution</i>																				
AF			-	-	-		7	0.539		15	1.155		5	0.385		-	-		5	0.385
AFNG			-	-	-		-	-		2	0.154		2	0.154		-	-		2	0.154
AFR			-	-	-		1	0.077		2	0.154		2	0.154		-	-		2	0.154
54K PLOW (7657)	A		-	-	-	-	-	-	-	-	-	0.380	1	0.380	-	-	-	0.380	1	0.380
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		1	0.380		-	-		1	0.380
DUMP W/SNOW PLOW (3963)	A		-	-	-	0.180	2	0.360	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		2	0.360		-	-		-	-		-	-		-	-
SNOW BROOM AND BLOWER (3770)	A		-	-	-	0.449	3	1.347	0.449	4	1.796	0.483	5	2.415	-	-	-	0.483	5	2.415
<i>Secondary Distribution</i>																				
AF			-	-	-		3	1.347		4	1.796		5	2.415		-	-		5	2.415
SNOW REMOVAL UNIT 3K TON PER HOUR (5554)	A		-	-	-	0.496	2	0.992	0.496	13	6.448	0.496	5	2.478	-	-	-	0.496	5	2.478
<i>Secondary Distribution</i>																				
AF			-	-	-		2	0.992		11	5.456		5	2.478		-	-		5	2.478
AFR			-	-	-		-	-		2	0.992		-	-		-	-		-	-
45K REVERSIBLE PLOW (1944)	A		-	-	-	0.335	3	1.005	-	-	-	0.354	2	0.708	-	-	-	0.354	2	0.708
<i>Secondary Distribution</i>																				
AF			-	-	-		2	0.670		-	-		2	0.708		-	-		2	0.708
AFNG			-	-	-		1	0.335		-	-		-	-		-	-		-	-
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.151	-	-	0.053	-	-	0.052	-	-	-	-	-	0.052
<i>Secondary Distribution</i>																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6 **P-1 Line Item Number / Title:** 826210 / Runway Snow Remov And Cleaning Equ **Aggregated Items Title:** Runway Snow Remov And Cleaning Equ

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AF				-	-		-	0.151		-	0.053		-	0.052		-	-		-	0.052
Subtotal: Uncategorized			-	-	-	-	-	7.412	-	-	11.836	-	-	9.134	-	-	-	-	-	9.134
Total			-	-	-	-	-	7.412	-	-	11.836	-	-	9.134	-	-	-	-	-	9.134

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

Remarks:

FY22 European Defense Initiative funding in the amount of 5.156M will procure 16 vehicles.

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

UNIT COSTS FOR FY22 ARE SUBJECT TO CHANGE.

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base Maintenance Support	P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles
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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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	66.923	63.748	111.820	-	111.820	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	66.923	63.748	111.820	-	111.820	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	66.923	63.748	111.820	-	111.820	-	-	-	-	-	-

(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:

FY20 funding totals include 11.837M appropriated for Overseas Contingency Operations.

FY21 funding totals include 20.653M appropriated for Overseas Contingency Operations.

This vehicle group consist of armored loaders and dozers (added this year), 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 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.

"This requirement [or modification] supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D "Audits: audit of financial statements of Department of Defense components by independent external auditors.

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: 0207430F, 0208028F, 0502831F, 0507831F, 0702831F.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	379	335	587	0	587	-	-	-	-
	Total Obligation Authority	65.873	62.878	110.495	0.000	110.495	-	-	-	-
AFNG	Quantity	5	8	7	0	7	-	-	-	-
	Total Obligation Authority	0.776	0.673	0.990	0.000	0.990	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base Maintenance Support	P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles
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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

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AFR	Quantity	4	2	3	0	3	-	-	-	-
	Total Obligation Authority	0.274	0.197	0.335	0.000	0.335	-	-	-	-
Total: Secondary Distribution	Quantity	388	345	597	0	597	-	-	-	-
	Total Obligation Authority	66.923	63.748	111.820	0.000	111.820	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base Maintenance Support **P-1 Line Item Number / Title:** 826990 / Base Maintenance Support Vehicles

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Base Maintenance Support Vehicles				- / -	- / 66.923	- / 63.748	- / 111.820	- / -	- / 111.820
P-40	Total Gross/Weapon System Cost				- / -	- / 66.923	- / 63.748	- / 111.820	- / -	- / 111.820

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

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

Justification:
 FY22 procurement dollars in the amount of 111.820M will procure, but not be limited to, 597 vehicles in support of installation and unit mission requirements for Air Force personnel. Total procurement dollars in the amount of 117.592M includes:
 ---FY22 procurement dollars from above funding includes 0.104M for 1 vehicle requirements as the Air Force resumes base operating support and vehicle support at Joint Region Marianas from the Navy.
 ---FY22 procurement dollars from above funding includes 1.426M for 6 vehicle requirements for Enduring Requirements.
 Quantities are based on current requirements provided by the 441 Vehicle Support Chain Operations Squadron (VSCOS) IAW the process outlined in AFI 24-302, Vehicle Management. The requirements are generated from the priority buy model that is used to support the Planning, Programming, Budgeting and Execution (PPBE) process. The model calculates vehicle requirements by fund year by BPAC using end of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 Quantities reflected on the PDOCs show current requirements for each year supporting Active Duty, Air Force Reserve Center (AFRC), Air National Guard (ANG), Rapid Airfield Damage Repair (RADR), European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.
 As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.
 Unit Cost is subject to change from year-to-year based on buy quantities, CONUS/OCONUS locations, inflation and additional requirements (options required by users). Examples of options include, but are not limited to, specialized trailer towing packages, export (non-Ultra Low Sulfur Diesel) engines, and mission specific specialized attachments for construction vehicles. Unit cost is also subject to change based on fluctuations in contract pricing.
 Unit Cost will and does fluctuate depending on the vendors who submit quotes and are lowest priced/technically acceptable. Some vendors are twice the cost of others but depends on who submits quotes and are on contract at DLA/GSA.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles						Aggregated Items Title: Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
DUMP TRUCK, 6X4, 64K GVW (2320-01-524-6043)	A		-	-	-	0.154	1	0.154	0.154	2	0.308	0.162	2	0.324	-	-	-	0.162	2	0.324
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.154		2	0.308		1	0.162		-	-		1	0.162
AFR			-	-	-		-	-		-	-		1	0.162		-	-		1	0.162
BATCHING PLANT (3895-01-063-2722)	A		-	-	-	-	-	-	-	-	-	1.085	7	7.595	-	-	-	1.085	7	7.595
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		7	7.595		-	-		7	7.595
UPARMORED CRAWLER DOZER T9 (2410-01-672-6198)	A		-	-	-	-	-	-	-	-	-	0.650	4	2.600	-	-	-	0.650	4	2.600
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		4	2.600		-	-		4	2.600
UPARMORED CRAWLER DOZER T7 (2410-01-672-6199)	A		-	-	-	-	-	-	-	-	-	0.500	3	1.500	-	-	-	0.500	3	1.500
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		3	1.500		-	-		3	1.500
ARMORED WHEEL LOADER (3805-01-686-4441)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MKR TRAFFIC (3825-00-542-2515)	A		-	-	-	-	-	-	-	-	-	0.451	2	0.902	-	-	-	0.451	2	0.902
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		2	0.902		-	-		2	0.902
CRANE 25TON ROUGH TERRAIN (3810-01-479-9745)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRAC FTRACD SZT4 (2410-00-166-4176)	A		-	-	-	0.146	5	0.730	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		4	0.584		-	-		-	-		-	-		-	-
AFR			-	-	-		1	0.146		-	-		-	-		-	-		-	-
FRONT HOIST REF TRK (2320-01-470-6102)	A		-	-	-	0.225	3	0.675	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		3	0.675		-	-		-	-		-	-		-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
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SCOOP LOADER (3805-00-260-1967)	A		-	-	-	0.153	5	0.766	0.153	4	0.613	0.182	8	1.456	-	-	-	0.182	8	1.456
<i>Secondary Distribution</i>																				
AF			-	-	-		5	0.766		4	0.613		8	1.456		-	-		8	1.456
TRK DP 24000-33000G 4X2 (2320-00-833-6117)	A		-	-	-	0.082	3	0.246	0.082	6	0.492	0.082	11	0.906	-	-	-	0.082	11	0.906
<i>Secondary Distribution</i>																				
AF			-	-	-		3	0.246		5	0.410		11	0.906		-	-		11	0.906
AFNG			-	-	-		-	-		1	0.082		-	-		-	-		-	-
5 TON DUMP TRUCK (2320-00-706-5348)	A		-	-	-	0.116	1	0.116	-	-	-	0.116	3	0.349	-	-	-	0.116	3	0.349
<i>Secondary Distribution</i>																				
AF			-	-	-		-	-		-	-		2	0.233		-	-		2	0.233
AFNG			-	-	-		1	0.116		-	-		-	-		-	-		-	-
AFR			-	-	-		-	-		-	-		1	0.116		-	-		1	0.116
2.5 CY SCOOP LOADER FT (3805-00-728-9718)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EXCAVATOR DIESEL ENGINE DRIVEN PT (3805-01-106-7176)	A		-	-	-	0.329	7	2.301	0.329	16	5.261	0.344	31	10.664	-	-	-	0.344	31	10.664
<i>Secondary Distribution</i>																				
AF			-	-	-		7	2.301		16	5.261		31	10.664		-	-		31	10.664
WHEELED DITCHING MACHINE (3805-01-032-9974)	A		-	-	-	0.213	3	0.639	0.213	4	0.851	0.162	5	0.812	-	-	-	0.162	5	0.812
<i>Secondary Distribution</i>																				
AF			-	-	-		3	0.639		4	0.851		5	0.812		-	-		5	0.812
1.5 CY SCOOP LDR W/Q CPLR (3805-01-074-8111)	A		-	-	-	0.121	3	0.363	0.121	4	0.484	0.132	2	0.263	-	-	-	0.132	2	0.263
<i>Secondary Distribution</i>																				
AF			-	-	-		3	0.363		2	0.242		2	0.263		-	-		2	0.263
AFNG			-	-	-		-	-		2	0.242		-	-		-	-		-	-
LODR SCP PT 4CY (3805-01-075-1816)	A		-	-	-	0.262	24	6.298	0.262	46	12.058	0.281	37	10.399	-	-	-	0.281	37	10.399
<i>Secondary Distribution</i>																				
AF			-	-	-		24	6.298		46	12.058		37	10.399		-	-		37	10.399
SCOOP LDR W/BKHOE (3805-00-148-2169)	A		-	-	-	0.119	8	0.950	0.119	8	0.951	0.121	27	3.273	-	-	-	0.121	27	3.273

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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Secondary Distribution</i>																				
AF				-	-		8	0.950		8	0.951		27	3.273		-	-		27	3.273
SCOOP LOADER, SKID STEER 1CY (3805-01-257-5636)	A		-	-	-	0.076	4	0.305	0.076	1	0.076	0.061	3	0.182	-	-	-	0.061	3	0.182
<i>Secondary Distribution</i>																				
AF				-	-		4	0.305		1	0.076		3	0.182		-	-		3	0.182
DISTR BIT TRK MTD (3895-00-352-8105)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRAWLER DITCHING MACHINE (3805-00-080-1931)	A		-	-	-	-	-	-	0.286	1	0.286	0.386	2	0.772	-	-	-	0.386	2	0.772
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.286		2	0.772		-	-		2	0.772
ROLLER MOT PT SP 15T (3895-00-078-5898)	A		-	-	-	0.080	22	1.756	0.080	8	0.639	0.087	14	1.218	-	-	-	0.087	14	1.218
<i>Secondary Distribution</i>																				
AF				-	-		22	1.756		8	0.639		14	1.218		-	-		14	1.218
RLR RD TAND 2RL (3895-00-243-6797)	A		-	-	-	0.048	3	0.144	0.048	1	0.048	0.050	4	0.200	-	-	-	0.050	4	0.200
<i>Secondary Distribution</i>																				
AF				-	-		3	0.144		1	0.048		4	0.200		-	-		4	0.200
RLR VIB TYPE II (3895-01-071-5625)	A		-	-	-	0.148	15	2.226	0.148	4	0.592	0.158	14	2.210	-	-	-	0.158	14	2.210
<i>Secondary Distribution</i>																				
AF				-	-		15	2.226		4	0.592		14	2.210		-	-		14	2.210
1500G WATER DISTR (3825-00-554-1808)	A		-	-	-	0.156	29	4.510	0.156	42	6.543	0.165	28	4.620	-	-	-	0.165	28	4.620
<i>Secondary Distribution</i>																				
AF				-	-		29	4.510		42	6.543		28	4.620		-	-		28	4.620
TRAC IND IW-70 (2420-00-113-8984)	A		-	-	-	0.054	13	0.696	0.054	10	0.540	0.059	8	0.476	-	-	-	0.060	8	0.476
<i>Secondary Distribution</i>																				
AF				-	-		9	0.482		9	0.486		8	0.476		-	-		8	0.476
AFNG				-	-		2	0.107		-	-		-	-		-	-		-	-
AFR				-	-		2	0.107		1	0.054		-	-		-	-		-	-
DOZER T7 (2410-00-756-1161)	A		-	-	-	0.269	23	6.181	0.269	11	2.956	0.274	20	5.472	-	-	-	0.274	20	5.472
<i>Secondary Distribution</i>																				

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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AF				-	-		23	6.181		11	2.956		20	5.472		-	-		20	5.472
GRADER, SIZE V, TYPE III (3805-01-337-4624)	A		-	-	-	0.203	21	4.263	0.203	16	3.249	0.200	24	4.808	-	-	-	0.200	24	4.808
<i>Secondary Distribution</i>																				
AF				-	-		21	4.263		16	3.249		24	4.808		-	-		24	4.808
DISTRIBUTOR WATER TRAILER (3825-00-570-3417)	A		-	-	-				0.164	1	0.164	0.164	2	0.328	-	-	-	0.164	2	0.328
<i>Secondary Distribution</i>																				
AF				-	-					1	0.164		1	0.164		-	-		1	0.164
AFNG				-	-								1	0.164		-	-		1	0.164
SEWER TRK TANDEM AXLE (2320-01-500-5501)	A		-	-	-	0.423	2	0.846	0.423	2	0.846	0.388	3	1.164	-	-	-	0.388	3	1.164
<i>Secondary Distribution</i>																				
AF				-	-		2	0.846		2	0.846		3	1.164		-	-		3	1.164
WATER WAGON (3825-01-539-6813)	A		-	-	0.000										-	-	-			
TLR DITCHING MACH (2330-01-079-4053)	A		-	-	-	0.021	5	0.105	0.021	5	0.105	0.021	3	0.062	-	-	-	0.021	3	0.062
<i>Secondary Distribution</i>																				
AF				-	-		3	0.063		2	0.042		2	0.041		-	-		2	0.041
AFNG				-	-		1	0.021		3	0.063		1	0.021		-	-		1	0.021
AFR				-	-		1	0.021								-	-			
WATER DISTR TRUCK (3825-01-539-3764)	A		-	-	-				0.496	1	0.496				-	-	-			
<i>Secondary Distribution</i>																				
AF				-	-					1	0.496					-	-			
7.5 T CRANE (3810-01-106-3991)	A		-	-	-	0.307	22	6.754	0.219	4	0.874	0.328	13	4.260	-	-	-	0.328	13	4.260
<i>Secondary Distribution</i>																				
AF				-	-		22	6.754		4	0.874		13	4.260		-	-		13	4.260
TLR MANHOLE CLNR (2330-00-307-3295)	A		-	-	-	0.105	2	0.209	0.105	2	0.209	0.104	2	0.209	-	-	-	0.105	2	0.209
<i>Secondary Distribution</i>																				
AF				-	-		2	0.209		2	0.209		2	0.209		-	-		2	0.209
TRUCK, DUMP (2320-01-344-9282)	A		-	-	-	0.143	22	3.153	0.143	35	5.011	0.143	67	9.600	-	-	-	0.143	67	9.600

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<i>Secondary Distribution</i>																				
AF				-	-		22	3.153		32	4.582		67	9.600		-	-		67	9.600
AFNG				-	-		-	-		2	0.286		-	-		-	-		-	-
AFR				-	-		-	-		1	0.143		-	-		-	-		-	-
DRIER-MXR, BIT CONCR (3895-01-624-1958)	A			-	-	0.155	20	3.100	0.148	9	1.332	0.149	36	5.376	-	-	-	0.149	36	5.376
<i>Secondary Distribution</i>																				
AF				-	-		20	3.100		9	1.332		36	5.376		-	-		36	5.376
2000 GAL WATER TANK (3825-01-624-1963)	A			-	-	0.066	24	1.591	0.070	32	2.230	0.071	57	4.026	-	-	-	0.071	57	4.026
<i>Secondary Distribution</i>																				
AF				-	-		24	1.591		32	2.230		57	4.026		-	-		57	4.026
MIXER, BITUMINOUS MA (3895-01-627-1341)	A			-	-	0.203	10	2.033	0.205	15	3.082	0.221	18	3.986	-	-	-	0.221	18	3.986
<i>Secondary Distribution</i>																				
AF				-	-		10	2.033		15	3.082		18	3.986		-	-		18	3.986
GRADER SZ 6 (3805-01-373-5314)	A			-	-	-	-	-	0.277	1	0.277	0.335	2	0.670	-	-	-	0.335	2	0.670
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.277		2	0.670		-	-		2	0.670
MIXER CON TRLR MTD (3895-01-005-5422)	A			-	-	-	-	-	0.286	2	0.572	0.286	2	0.572	-	-	-	0.286	2	0.572
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	0.572		1	0.286		-	-		1	0.286
AFNG				-	-		-	-		-	-		1	0.286		-	-		1	0.286
COMPACT EXCAVATOR CRAWLER (3805-01-565-8767)	A			-	-	0.056	1	0.056	0.056	2	0.112	0.066	5	0.329	-	-	-	0.066	5	0.329
<i>Secondary Distribution</i>																				
AF				-	-		1	0.056		2	0.112		5	0.329		-	-		5	0.329
SCRAPPER MOTORIZED 18CY (3805-00-234-9778)	A			-	-	0.759	2	1.518	0.759	2	1.518	0.770	1	0.770	-	-	-	0.770	1	0.770
<i>Secondary Distribution</i>																				
AF				-	-		2	1.518		2	1.518		1	0.770		-	-		1	0.770

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CRUSH-SCREEN 150TH (3820-00-060-1841)	A		-	-	-	-	-	-	1.580	2	3.159	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	3.159		-	-		-	-		-	
T7 DOZER (2410-00-816-5091)	A		-	-	-	0.532	3	1.597	-	-	-	0.569	2	1.137	-	-	-	0.569	2	
<i>Secondary Distribution</i>																				
AF				-	-		2	1.065		-	-		2	1.137		-	-		2	
AFNG				-	-		1	0.532		-	-		-	-		-	-		-	
LOADER SKID STEER TRACK MTD (3805-00-278-1245)	A		-	-	-	0.075	3	0.225	0.075	4	0.300	0.057	9	0.510	-	-	-	0.057	9	
<i>Secondary Distribution</i>																				
AF				-	-		3	0.225		4	0.300		5	0.283		-	-		5	
AFNG				-	-		-	-		-	-		3	0.170		-	-		3	
AFR				-	-		-	-		-	-		1	0.057		-	-		1	
CR WHLD HYD 15T (3810-00-329-4154)	A		-	-	-	0.308	1	0.308	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		1	0.308		-	-		-	-		-	-		-	
SEWER TRK SINGLE AXLE (2320-01-501-8524)	A		-	-	-	-	-	-	0.403	1	0.403	0.374	1	0.374	-	-	-	0.374	1	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.403		1	0.374		-	-		1	
CRANE HYDRAULIC 15T (3810-01-485-8693)	A		-	-	-	-	-	-	0.230	1	0.230	0.230	3	0.689	-	-	-	0.230	3	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.230		3	0.689		-	-		3	
CRANE TRK MTD 28 TON (3810-001-506-6637)	A		-	-	-	-	-	-	0.443	1	0.443	0.404	3	1.212	-	-	-	0.404	3	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.443		3	1.212		-	-		3	
PAVEMENT PROFILER (3895-01-108-3606)	A		-	-	-	-	-	-	0.624	1	0.624	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		-	-		1	0.624		-	-		-	-		-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
TRUCK, WASTE WATER TANKER (2320-01-627-2536)	A		-	-	-	-	-	-	0.336	1	0.336	0.336	2	0.671	-	-	-	0.336	2	0.671
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		1	0.336		2	0.671		-	-		2	0.671
ROLLER MOTORIZED (3895-01-603-8654)	A		-	-	-	0.029	20	0.575	-	-	-	0.035	2	0.070	-	-	-	0.035	2	0.070
<i>Secondary Distribution</i>																				
AF			-	-	-		20	0.575		-	-		2	0.070		-	-		2	0.070
DUMP TRUCK 6X4 55K GVW (2320-01-058-5725)	A		-	-	-	0.132	17	2.250	0.132	1	0.132	0.152	14	2.124	-	-	-	0.152	14	2.124
<i>Secondary Distribution</i>																				
AF			-	-	-		17	2.250		1	0.132		14	2.124		-	-		14	2.124
EXCAVATOR CRAWLER MTD (3805-01-058-3562)	A		-	-	-	0.250	5	1.250	0.250	1	0.250	0.257	1	0.257	-	-	-	0.257	1	0.257
<i>Secondary Distribution</i>																				
AF			-	-	-		5	1.250		1	0.250		1	0.257		-	-		1	0.257
COMPACT TRACK LOADER (3805-01-603-8653)	A		-	-	-	0.126	25	3.150	0.127	33	4.186	0.081	69	5.599	-	-	-	0.081	69	5.599
<i>Secondary Distribution</i>																				
AF			-	-	-		25	3.150		33	4.186		69	5.599		-	-		69	5.599
COMPACT SHEEPS FOOT (3805-01-359-7626)	A		-	-	-	0.461	2	0.921	0.461	1	0.461	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-		2	0.921		1	0.461		-	-		-	-		-	-
DRILL ROCK (3820-00-00-050-9964)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRAC WHLD IND 4WD 85HP (2420-01-205-8579)	A		-	-	-	-	-	-	-	-	-	0.060	6	0.358	-	-	-	0.060	6	0.358
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		6	0.358		-	-		6	0.358
50T CRANE (3810-01-079-8358)	A		-	-	-	0.439	9	3.947	0.434	1	0.434	0.462	1	0.462	-	-	-	0.462	1	0.462
<i>Secondary Distribution</i>																				
AF			-	-	-		9	3.947		1	0.434		1	0.462		-	-		1	0.462

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6						P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles						Aggregated Items Title: Base Maintenance Support Vehicles								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
DUMP TRUCK 22 CY ARTICULATE (3805-00-931-0616)	A		-	-	-	-	-	-	-	-	0.452	1	0.452	-	-	-	0.452	1	0.452	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-		1	0.452		-	-		1	0.452	
TRAVEL MIXER ROTARY TILLER (3895-01-618-1267)	A		-	-	-	-	-	-	-	-	0.411	3	1.233	-	-	-	0.411	3	1.233	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-		3	1.233		-	-		3	1.233	
CRANE SP TM 20-29T (3810-00-554-4103)	A		-	-	-	-	-	-	-	-	0.487	1	0.487	-	-	-	0.487	1	0.487	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-		1	0.487		-	-		1	0.487	
CRANE 100TON A/T (3810-01-549-5094)	A		-	-	-	-	-	-	-	-	1.208	1	1.208	-	-	-	1.208	1	1.208	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-		1	1.208		-	-		1	1.208	
PAVING MACHINE (3895-01-057-5288)	A		-	-	-	-	-	-	-	-	0.349	2	0.698	-	-	-	0.349	2	0.698	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-		1	0.349		-	-		1	0.349	
AFNG			-	-	-	-	-	-	-	-		1	0.349		-	-		1	0.349	
TRUCK MOUNTED CONCRETE MIXER (3895-00-834-6124)	A		-	-	-	-	-	-	-	-	0.211	2	0.422	-	-	-	0.211	2	0.422	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-		2	0.422		-	-		2	0.422	
CRANE 18 TON WHEEL IND (3810-01-539-6808)	A		-	-	-	-	-	-	-	-	0.283	3	0.849	-	-	-	0.283	3	0.849	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-		3	0.849		-	-		3	0.849	
CRANE, 50 TON (3810-00-272-9031)	A		-	-	-	-	-	-	-	-	0.655	1	0.655	-	-	-	0.655	1	0.655	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-		1	0.655		-	-		1	0.655	
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.016	-	-	0.015	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AF				-	-		-	0.016		-	0.015		-	-		-	-		-	-
Subtotal: Uncategorized			-	-	-	-	-	66.923	-	-	63.748	-	-	111.820	-	-	-	-	-	111.820
Total			-	-	-	-	-	66.923	-	-	63.748	-	-	111.820	-	-	-	-	-	111.820

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

Remarks:

FY22 European Defense Initiative funding in the amount of 21.136M will procure 126 vehicles.

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

UNIT COSTS FOR FY22 ARE SUBJECT TO CHANGE.

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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): **Program Elements for Code B Items:** 0207448F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	83.615	54.864	66.022	-	66.022	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	83.615	54.864	66.022	-	66.022	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	83.615	54.864	66.022	-	66.022	-	-	-	-	-	-

(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:

These programs support Cyberspace Activities.

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

Provides the AFCYBER Commander with hardware and software tools necessary to effectively and efficiently plan, monitor, and execute missions in the cyber domain. This includes development and dissemination of Cyberspace Tasking Orders to ensure commander's intent is supported through the application of cyber forces using the latest intelligence. C3MS provides a common operational picture to maintain cyberspace threat activities and integrates cyberspace indications and warnings, analysis, and other actionable intelligence products into overall situational awareness, planning, and execution. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting. Funding in this exhibit contained in PE 0208064F

PE 0208087F DISTRIBUTED CYBER WARFARE OPERATIONS (DCWO)

Provides for the support and deployment of cyberspace solutions in the form of material and non-material cyberspace network attack tools and exploits for DCWO portfolio to include but not limited to AF Offensive Cyberspace Operations (OCO) units, the Cyber Mission Forces, Combatant Commands (COCOMs), and other authorized agencies. Funding procures specialized hardware/software necessary for real time deployment, exploit identification, tool development, and testing in an environment simulating real-world operational infrastructures and enclaves. Funding also is used for the procurement of the AF cyber test and training range, used for workforce training by the 318th Cyber Operations Group under the 67th Cyber Wing. Beginning in Fiscal Year 2021, procurement funding realigned to WSC 834320 C3 Countermeasures for clarity in reporting.

PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS (DCO)

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. 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. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) and WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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):	Program Elements for Code B Items: 0207448F	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>PE 0303135F PUBLIC KEY INFRASTRUCTURE (PKI)</p> <p>PKI provides identity management (IDM) services as part of the DOD Identity Credential and Access Management (ICAM) program to support warfighter requirements. Air Force IDM programs align with DoD ICAM efforts and support DoD ICAM Roadmap and Strategic Plan and the AF ICAM Technology Roadmap. PKI provides the fundamental framework implemented within DoD to ensure information system's security. It provides the capability to attach digital signatures to electronic documents for IDM, to encrypt and decrypt electronic documents for secure transmission, and to support physical and logical access control solutions. PKI-enabled applications afford confidentiality and authentication services to communications and/or network transactions, as well as verification of the data integrity and non-repudiation of those transactions. PKI is one of many security solutions used to protect information and provide attributes enabling authorization access to critical resources in the Air Force Information Networks (AFIN) and used concurrently with other solutions. PE also includes Air Force Directory Service (AFDS), which is the single source of consolidated authoritative IDM enabling secure smart card logon to AF clients and applications. 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 using 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, by providing AF user credentials to the AF Network Enterprise and AF system applications.</p> <p>PE 0303140F INFORMATION SYSTEMS SECURITY PROGRAM (ISSP):</p> <p>This program funds procurement of Communications Security (COMSEC) equipment, ancillary encryption/decryption devices, and related equipment to ensure confidentiality, integrity, and availability and enable the secure transport of information. ISSP delivers on rising national, DoD, Space Force, and AF priorities to address cybersecurity threats and increasing warfighter dependence on cyberspace. AF, Space Force, and DoD require the capability to collect, process, and disseminate an uninterrupted flow of information while denying an adversary the ability to intercept, collect, destroy, interpret, or manipulate our information flows. Secure communication allows the DoD to achieve and maintain decision superiority, the key to successful application of the military instrument of national power in modern, high-tempo, full spectrum operations. AF COMSEC equipment protects information such as, warfighter positions, mission planning, target strikes, commander's orders, intelligence, force strength, and force readiness. When an adversary is capable of interpretation, manipulation, or destruction of the information used by the warfighter, DoD military forces may suffer devastating mission degradation that can result in loss of life and resources and/or exceptionally grave damage to national security. The COMSEC program includes equipment upgrades and replacements which incorporate the best technologies mandated to provide mission critical warfighter secure voice and data communications in tactical, strategic, and network applications for our globally-deployed COMSEC crypto assets supporting AF, Space Force, and DoD missions. Details of the assets are included in each section's narrative.</p> <p>Funding for this exhibit contained in PE 0208064F; PE 0208087F; PE 0208088F; PE 0303135F; PE 0303140F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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): **Program Elements for Code B Items:** 0207448F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	OPERATIONAL HQ - CYBER		B		- / -	- / 5.113	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	Distributed Cyber Warfare Operations				- / -	- / 2.790	- / 0.000	- / 0.000	- / -	- / 0.000
P-5	AF Defensive Cyberspace Operations		A		- / -	- / 16.796	- / 0.000	- / 0.001	- / -	- / 0.001
P-5	Public Key Infrastructure (PKI)		A		- / -	- / 4.160	- / 4.230	- / 4.260	- / -	- / 4.260
P-5	Information Systems Security Program	P-5a	A		- / -	- / 54.756	- / 50.634	- / 61.761	- / -	- / 61.761
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 83.615	- / 54.864	- / 66.022	- / -	- / 66.022

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

Justification:
 These programs support Cyberspace Activities.

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

1. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting.

PE 0208087F DISTRIBUTED CYBER WARFARE OPERATIONS (DCWO)

1. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting.

PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS

1. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting.

PE 0303135F PUBLIC KEY INFRASTRUCTURE (PKI):

1. EVOLUTIONARY PKI END USER EQUIPMENT: PKI provides identity management (IDM) services as part of the DOD Identity Credential and Access Management (ICAM) program to support warfighter requirements. Air Force IDM programs align with DoD ICAM efforts and support DoD ICAM Roadmap and Strategic Plan and the AF ICAM Technology Roadmap. PKI provides the fundamental framework and services implemented within DoD to ensure information systems security. It provides the capability to attach digital signatures to electronic documents for IDM, to encrypt and decrypt electronic documents for secure transmission, and to support physical and logical access control solutions. PKI-enabled applications afford confidentiality and authentication services to communications and/or network transactions, as well as verification of the data integrity and non-repudiation of those transactions. PKI is one of many security solutions used to protect information and provide attributes enabling authorization access to critical resources in the Air Force Information Networks (AFIN) and is used concurrently with other solutions. FY22 funding supports several different requirement areas to procure infrastructure equipment for the field in support of AFIN, PKI, Evolutionary PKI End User Equipment to include multifactor authentication technologies and authorization services, Less Than Medium Assurance (LTMA) capabilities and services, cloud/mobile support, claims-based authorization, attribute-based access control, federation to support mission partners, and non-person entities management. The current DoD PKI token (DoD Common Access Card (CAC)) is undergoing a gradual evolution towards a higher assurance token. Additionally, Homeland Security Presidential Directive-12 (HSPD-12) mandates a common identification card across the

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207448F	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
Federal Government. Based on the HSPD-12 requirements, the National Institute of Standards and Technology (NIST) developed Federal Information Processing Standard 201 (FIPS 201) which adds security requirements to the identification card.		
<p>2. AIR FORCE DIRECTORY SERVICES (AFDS): AFDS is the single source of consolidated authoritative identity management data that enables secure smart card logon to Air Force clients and applications, facilitating global net-centric operations. As part of the DOD/AF Identity Credential Access Management (ICAM) section, AFDS capabilities include identity data directory (IDD), automated AFNET account provisioning and exchange contact information synchronization (ECIS) also known as GAL synchronization. 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 using 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 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. Funds will support procurement of identity and credential solutions for mobile platforms and AF systems and applications to meet DoD and AF ICAM requirements as well as procure hardware, software and contractor supported upgrades. FY22 funds will procure hardware, software, and support upgrades.</p> <p>PE 0303140F INFORMATION SYSTEMS SECURITY PROGRAM:</p> <p>1. 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, Space Force, inter-service, and various DoD agency customers; and includes items approved under the National Security Agency (NSA) Commercial COMSEC Evaluation Program (CCEP) such as KIV-7M, Tactical Fast Lane (TACLANE), and other High Assurance Internet Protocol Encryptor (HAIZE) devices. The program includes equipment upgrades and replacements that incorporate state-of-the-art technologies for mission-critical warfighter secure voice and data communications. The program provides needed upgrades to encryption devices in FY22 to comply with NSA's Advanced Cryptographic Capabilities (ACC) directives. The program supports tactical, strategic, and network applications for globally deployed cryptologic assets supporting AF, Space Force, and DoD. Supported systems fall within AF Information Systems Security and Information Assurance arenas. Funding for this effort is in PE 0303140F.</p> <p>a. IN-LINE NETWORK ENCRYPTORS (INE): Previously called Network Encryption Systems. FY22 funding fields the new INE required to maintain the confidentiality, data integrity, and non-repudiation of classified communications. INEs are the mainstay for securing communications used in classified terrestrial and airborne communications networks. The new INEs feature robust data encryption improvements included in the HAIZE Interoperability Specification (HAIZE IS) as well as Internet Protocol (IP) Version 6 capability that will improve security and expand the bandwidth of USAF and Space Force secure IP networks.</p> <p>b. LINK ENCRYPTION FAMILY (LEF): No Budget Year (FY22) funding requested.</p> <p>c. AIR AND GROUND COMSEC CONSOLIDATED: Several requirements have been combined into one line: Secure Telephones, COMSEC Acquisition Reform (CAR), Peculiar Support Equipment, Secure Communications Voice/Data, Embedded Encryption Devices, Telemetry Encryption Devices and AF Key Management Enterprise (AF KME) Tier 1, Tier 2, and Tier 3 hardware. FY22 funds procure secure voice/data equipment, latest generation Tier 3 devices (such as SKLs/NGLDMs/TKLs), Tier 2 hardware to include KMI Management Clients (MGCs) that provide the user interface; Advanced Key Processors (AKPs) that provide the cryptographic capability to interact with the DoD KMI, DoD Type 1 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 aggregation of numerous items. Each year the types and quantities of items utilized to meet requirements vary; an average unit cost is based on number/type of units planned for purchase.</p> <p>2. CRYPTOGRAPHIC MODERNIZATION (CM): The DoD is transforming its existing operational capabilities to realize a seamless Joint network of information and engagement grids that securely link sensors, command and control cells, and tactical units to support current and future warfighting capabilities. This includes cryptographic devices that are more robust, modular, scalable, capable, net-centric, and durable--allowing more effective and efficient performance including reduced inventory, expanded data rates, simplified upgrades, reduced costs, and ensured Global Information Grid (GIG) compatibility. The GIG requires a transformed cryptographic inventory. The DoD Cryptographic Modernization (CM) Initiative delivers that inventory, ensuring a strong security posture for national security and tactical communications systems by providing transparent cryptographic capabilities consistent with operational imperatives, NSA mandates, and mission environments. The future inventory will provide security devices that ease logistics, support Joint and coalition interoperability, 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, and without</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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):	Program Elements for Code B Items: 0207448F	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>increasing communication transient and information holding risk. Current CM programs will ensure modernized, secure communications capability to Vinson/ANDVT devices and miniaturized crypto for small unmanned systems. Current programs will replace/upgrade over 30,000 devices out of the Air Force's 245,000+ crypto devices and provided over 100,000 new devices where none were previously available. Other programs are undergoing development under the auspices of other lines in 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 NSA assessments and Policy #3-9 "Cryptographic Modernization Initiative Requirements for Type 1 Cryptographic Products". Funding for this effort is in PE 0303140F.</p> <p>a. IDENTIFICATION FRIEND OR FOE (IFF) MODE 5 CM: 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 are being assessed annually in coordination with ACC CYSS/CYZ AF Crypto requirements office for any platform requirement changes that drive procurement actions.</p> <p>(1) KIV-78 DEVICES: FY22 procurements 151 devices.</p> <p>(2) KIV-77 DEVICES: FY22 procurements 144 devices.</p> <p>b. VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM): FY22 funds support the VACM program. VACM is an element within the AF CM Program. This program developed and is procuring devices 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 Baseband Input/Output (BBIO) module as a permanent modification of the ARC-234. The VACM Remote Control Unit (RCU) project is a permanent sustainment modification effort that will augment and replace legacy RCU inventory.</p> <p>(1) VACM COMPONENTS (ARC-234): FY22 funding supports the VACM Embedded Project. It was established to modernize cryptographic devices that are integrated within various VINSON/ANDVT radios. The BBIO module performs COMSEC functions for the ARC-234. The Permanent Sustainment Modification of the ARC-234 will retain Embedded COMSEC capability by upgrading the BBIO module with reprogrammable hardware and modern crypto algorithms. The upgraded BBIOs will be installed/modified into the ARC-234 radios.</p> <p>(2) VACM DEVICES: FY22 funding procures modernized secure voice communication devices. The production line will replace five legacy crypto device types on critical national leadership networks including airborne, ground and mobile platforms.</p> <p>(3) Remote Control Unit (RCU): FY22 funding supports the RCU, a permanent sustainment modification project that will provide a form fit replacement and backward capability with legacy devices. This effort fixes existing sustainment challenges.</p> <p>c. MISSILE ELECTRONIC ENCRYPTION DEVICE (MEED): The modified Missile Entry Control System (MECS) KL-90 devices used encrypt/decrypt personnel authentication and lock combination transmission to ensure only authorized personnel enter into Intercontinental Ballistic Missile (ICBM) control centers and facilities. This effort will field the MEED equipment in compliance with current NSA information assurance (IA) security design guidance. No Budget Year (FY22) funding requested.</p> <p>d. MINI CRYPTO (MC): FY22 funding supports the MC program in the procurement of a Tactical Key Management (TKM) miniaturized cryptographic solution to protect Secret and Below (SaB) Command and Control (C2) and mission data for Size, Weight, and Power (SWaP) constrained small form factor platforms and unmanned systems/sensors--many of which currently have no cryptographic capability and transmit in the clear. MC's Tactical Key Management (TKM) solution uses unclassified algorithms, can perform all aspects of key management, and can self-generate its own key. This unique combination enables "lose-able" tactical crypto to protect lives and valuable assets, removing the requirement for pre-placed key material, reducing the logistical/operational burden on tactical users, while allowing the ability to add/remove users as the tactical situation dictates.</p> <p>FY22 Plans: (1) Complete Full Rate Production (FRP) option activities and exercise FRP Option 2 (with end user funding if needed)</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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):	Program Elements for Code B Items: 0207448F	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(2) Provide FRP units to MC Users and create a fielding schedule for remaining units (3) Provide support to MC Users as they integrate MC into their platforms (4) Prepare IDIQ follow-on contract in support of additional User MC quantity requirements</p> <p>e. PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY22 program management administration funding supports management with engineering and technical expertise in support of procurement activities.</p> <p>f. REMOTE REKEY (RRK) (CI-33) DEVICES: The RRK System requires technology insertion and security enhancement activities to meet DoD, NSA and AF security and sustainment mandates. The first requirement of this effort is an operating system update to the RRK workstation. This update from Standard Desktop Configuration (SDC) 3.X (Microsoft Windows 7) to SDC 5.X (Microsoft Windows 10), will require further enhancements of the custom commercial software to identify with the new Win 10 operating system. The second element of this requirement is to eliminate the static link in the software to allow for compatibility with any version of a KG-175D, adding flexibility to host next generation Inline Network Encryptor. The RRK System also requires Communication Set (CSET) equipment replacement and baseline configuration updates in order for each control and remote site to use the replacement CSET equipment. No FY22 funding requested.</p> <p>3. AIR FORCE KEY MANAGEMENT ENTERPRISE (AF KME): AF KME consolidated under 1.c. AIR AND GROUND COMSEC CONSOLIDATED</p> <p>a. KMI Hardware (Tier 2): KMI Hardware (Tier 2) consolidated under 1.c. AIR AND GROUND COMSEC CONSOLIDATED</p>		

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1	P-1 Line Item Number / Title: 831010 / Comsec Equipment	Item Number / Title [DODIC]: OPERATIONAL HQ - CYBER

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	5.113	0.000	0.000	-	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	5.113	0.000	0.000	-	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	5.113	0.000	0.000	-	0.000

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - OPERATIONAL HQ - CYBER Cost																		
Recurring Cost																		
HARDWARE AND COMMERCIAL OFF THE SHELF SOFTWARE	-	-	-	5.113	1	5.113	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.113	-	-	0.000	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
TRAINING AND FIELDING	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - OPERATIONAL HQ - CYBER Cost</i>	-	-	-	-	-	5.113	-	-	0.000	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	5.113	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

Remarks:

Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1	P-1 Line Item Number / Title: 831010 / Comsec Equipment	Aggregated Items Title: Distributed Cyber Warfare Operations
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Cyber Workforce Training PE 0208087F																				
1. 39 IOS FTU Expansion Equipment	A		-	-	-	2.790	1	2.790	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Cyber Workforce Training PE 0208087F			-	-	-	-	-	2.790	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	2.790	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

Remarks:
 Funding supports Cyber Workforce Training requirements.
 - Starting in FY21, procurement funding realigned to WSC 834320 C3 Countermeasures for clarity of reporting.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1	P-1 Line Item Number / Title: 831010 / Comsec Equipment	Item Number / Title [DODIC]: AF Defensive Cyberspace Operations

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	16.796	0.000	0.001	-	0.001
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	16.796	0.000	0.001	-	0.001
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	16.796	0.000	0.001	-	0.001

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - 0208088F COMSEC Cost																		
Recurring Cost																		
1. Cyberspace Vulnerability Assessment/Hunter	-	-	-	0.052	58	2.997	-	-	0.000	-	-	0.001	-	-	-	-	-	0.001
2. Computer Security Assistance Program (CSAP) Countermeasures	-	-	-	0.894	5	4.469	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
3. Cyberspace Defense Analysis	-	-	-	1.698	1	1.698	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
4. WSCR	-	-	-	0.025	300	7.632	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	16.796	-	-	0.000	-	-	0.001	-	-	-	-	-	0.001
<i>Subtotal: Hardware - 0208088F COMSEC Cost</i>	-	-	-	-	-	16.796	-	-	0.000	-	-	0.001	-	-	-	-	-	0.001
Gross/Weapon System Cost	-	-	-	-	-	16.796	-	-	0.000	-	-	0.001	-	-	-	-	-	0.001

Remarks:

Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force						Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1				P-1 Line Item Number / Title: 831010 / Comsec Equipment			Item Number / Title [DODIC]: Public Key Infrastructure (PKI)		
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:			
Resource Summary				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)				-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-	4.160	4.230	4.260	-	4.260
Less PY Advance Procurement (<i>\$ in Millions</i>)				-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)				-	4.160	4.230	4.260	-	4.260
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)				-	4.160	4.230	4.260	-	4.260
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (<i>\$ in Millions</i>)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)				-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - 0303135F COMSEC Cost																		
Recurring Cost																		
1. EVOLUTIONARY PKI END USER EQUIPMENT	-	-	-	0.000	69,398	3.445	0.000	20,000	3.233	0.000	19,988	3.297	-	-	-	0.000	19,988	3.297
2. AIR FORCE DIRECTORY SERVICES	-	-	-	0.143	5	0.715	0.145	5	0.727	0.148	5	0.738	-	-	-	0.148	5	0.738
3. LESS THAN MEDIUM ASSURANCE PKI	-	-	-	-	-	-	0.027	10	0.270	0.027	10	0.270	-	-	-	0.027	10	0.270
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	4.160	-	-	4.230	-	-	4.305	-	-	-	-	-	4.305
<i>Subtotal: Hardware - 0303135F COMSEC Cost</i>	-	-	-	-	-	4.160	-	-	4.230	-	-	4.305	-	-	-	-	-	4.305
Gross/Weapon System Cost	-	-	-	-	-	4.160	-	-	4.230	-	-	4.260	-	-	-	-	-	4.260

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1	P-1 Line Item Number / Title: 831010 / Comsec Equipment	Item Number / Title [DODIC]: Information Systems Security Program

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	54.756	50.634	61.761	-	61.761
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	54.756	50.634	61.761	-	61.761
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	54.756	50.634	61.761	-	61.761

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - 1. AIR and GROUND COMSEC (PE 0303140F) Cost																		
Recurring Cost																		
a. IN-LINE NETWORK ENCRYPTORS ^(f)	-	-	-	0.016	168	2.700	0.014	914	13.099	0.014	1,071	14.996	-	-	-	0.014	1,071	14.996
c. AIR AND GROUND CONSOLIDATED ^(f)	-	-	-	0.003	931	2.794	0.003	2,985	7.490	0.004	4,980	18.052	-	-	-	0.004	4,980	18.052
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.494	-	-	20.589	-	-	33.048	-	-	-	-	-	33.048
<i>Subtotal: Hardware - 1. AIR and GROUND COMSEC (PE 0303140F) Cost</i>	-	-	-	-	-	5.494	-	-	20.589	-	-	33.048	-	-	-	-	-	33.048
Hardware - 2. CRYPTOGRAPHIC MODERNIZATION (PE 0303140F) Cost																		
Recurring Cost																		
a (1). KIV-78	-	-	-	0.008	25	0.203	0.008	25	0.207	0.008	151	1.208	-	-	-	0.008	151	1.208
a (2) KIV-77	-	-	-	-	-	-	-	-	-	0.008	144	1.152	-	-	-	0.008	144	1.152
b. (1) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) COMPONENTS (ARC-234) INSTALLATION	-	-	-	0.006	278	1.673	0.006	83	0.500	-	-	-	-	-	-	-	-	-
b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES ^(f)	-	-	-	0.009	1,787	16.888	0.010	2,172	22.298	0.011	2,230	24.242	-	-	-	0.011	2,230	24.242

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Exhibit P-5, Cost Analysis: PB 2022 Air Force												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1						P-1 Line Item Number / Title: 831010 / Comsec Equipment						Item Number / Title [DODIC]: Information Systems Security Program					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
c. MISSILE ELECTRONIC ENCRYPTION DEVICES (MEED)	-	-	-	0.010	1,803	17.138	0.010	277	2.774	-	-	-	-	-	-	-	-	-
d. MINI CRYPTO	-	-	-	0.001	1,680	1.680	0.001	155	0.155	0.001	158	0.158	-	-	-	0.001	158	0.158
e. PROGRAM MANAGEMENT (PMA)	-	-	-	-	-	3.964	-	-	1.709	-	-	1.953	-	-	-	-	-	1.953
b. (3) REMOTE CONTROL UNIT (RCU)	-	-	-	0.008	404	3.232	0.008	125	1.000	-	-	-	-	-	-	-	-	-
f. REMOTE REKEY (RRK) (CI-33)	-	-	-	3.107	1	3.107	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	47.885	-	-	28.643	-	-	28.713	-	-	-	-	-	28.713
<i>Subtotal: Hardware - 2. CRYPTOGRAPHIC MODERNIZATION (PE 0303140F) Cost</i>	-	-	-	-	-	47.885	-	-	28.643	-	-	28.713	-	-	-	-	-	28.713
Hardware - 3. AF KMI (PE 0303140F) Cost																		
Recurring Cost																		
a. KMI HARDWARE	-	-	-	0.038	36	1.377	0.033	42	1.402	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.377	-	-	1.402	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - 3. AF KMI (PE 0303140F) Cost</i>	-	-	-	-	-	1.377	-	-	1.402	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	54.756	-	-	50.634	-	-	61.761	-	-	-	-	-	61.761

Remarks:

COMSEC Equipment is procured as a centrally managed item using 3080. Various units and difference price per unit. Average Unit Cost used.

3. AFKMI (PE 0303140F) a. KMI Hardware consolidated under 1. Air and Ground COMSEC (PE 0303140F) c. Air and Ground Consolidated

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1	P-1 Line Item Number / Title: 831010 / Comsec Equipment	Item Number / Title [DODIC]: Information Systems Security Program
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
a. IN-LINE NETWORK ENCRYPTORS		2020	General Dynamics / Various	Various	NSA	Nov 2019	Jan 2020	168	0.016	Y		
a. IN-LINE NETWORK ENCRYPTORS		2021	General Dynamics / Various	Various	NSA	Nov 2020	Jan 2021	914	0.014	Y		
a. IN-LINE NETWORK ENCRYPTORS		2022	General Dynamics / Various	Various	NSA	Nov 2021	Jan 2022	1,071	0.014	Y		
c. AIR AND GROUND CONSOLIDATED		2020	Raytheon / Florida	Various	CPSG	Mar 2020	Apr 2021	931	0.003	Y		
c. AIR AND GROUND CONSOLIDATED		2021	Raytheon / Florida	Various	CPSG	Mar 2021	Apr 2022	2,985	0.003	Y		
c. AIR AND GROUND CONSOLIDATED		2022	Raytheon / Florida	Various	CPSG	Mar 2022	Apr 2023	4,980	0.004	Y		
b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES		2020	Raytheon / Florida	Various	NSA	Jun 2020	Apr 2021	1,787	0.009	Y		
b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES		2021	Raytheon / Florida	Various	NSA	Mar 2021	Apr 2022	2,172	0.010	Y		
b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES		2022	Raytheon / Florida	Various	NSA	Mar 2022	Apr 2023	2,230	0.011	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 831020 / STRATEGIC MICROELECTRIC SUPPLY SYSTEM

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	885.051	-	885.051	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	885.051	-	885.051	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	885.051	-	885.051	-	-	-	-	-	-

(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:

Time Sensitive Critical item Procurement:

Funds procurement of commercial items going out of production within the FYDP.

Justification:

Strategic Microelectronic Supply Items

Funds procurement of commercial microelectronic items going out of production within the Future Year Defense Program (FYDP). Procurement of these items is necessary to ensure assets are available for on-going Department of Defense acquisition programs; to avoid breaks in program schedule or production quantities. This line item includes the Life of Type Buys of critical microelectronic components in advance of commercial manufacturing line closures. It will be a new start in FY22. Detailed information is classified and will be provided on a need to know basis.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs **P-1 Line Item Number / Title:** 832050 / International Intel Tech & Architectures

ID Code (A=Service Ready, B=Not Service Ready): 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	11.386	10.783	5.809	-	5.809	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	11.386	10.783	5.809	-	5.809	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	11.386	10.783	5.809	-	5.809	-	-	-	-	-	-

(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:

International Intelligence Technology and Architectures (IITA) oversees, manages, and provides the United States (US) component of the multi-national Battlefield Information Collection and Exploitation System (BICES) with a collaborative environment and intelligence sharing enterprise required for processing and dissemination critical intelligence information among US, North Atlantic Treaty Organization (NATO), allied and coalition forces. The US BICES program procures communications and electronic equipment, support equipment, accessories, and specialized equipment to deliver a more mature, robust and dynamic suite of capabilities for intelligence information sharing across the US BICES/US BICES Extended (US BICES-X) system. US BICES-X is a multi-level, secure system that uses releasable elements of the Defense Intelligence Information Enterprise (DI2E) framework, and functions to support the full spectrum of intelligence operations and dissemination across Department of Defense (DoD), Combat Support Agencies (CSA), and multiple Combatant Commands (CCMD) for the Office of the Under Secretary of Defense, Intelligence and Security (OUSD(I&S)). US BICES/US BICES-X has been designated the enduring intelligence and information sharing component of the Mission Partner Environment (MPE). Funding for this exhibit contained in PE 0305600F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs **P-1 Line Item Number / Title:** 832050 / International Intel Tech & Architectures

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	International Intel Tech & Architectures				- / -	- / 11.386	- / 10.783	- / 5.809	- / -	- / 5.809
P-40	Total Gross/Weapon System Cost				- / -	- / 11.386	- / 10.783	- / 5.809	- / -	- / 5.809

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

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

Justification:
 In response to CCMD requirements, funding for US BICES/US BICES-X capabilities implements OUSD(I&S) global intelligence sharing arrangements. FY2022 funding will support J2 (Joint Intelligence) network requirements to exchange intelligence information with bi-lateral, multi-lateral, and NATO partners. BICES Capability Office will procure the hardware/software/services required to provide system capability improvements such as, cross-domain solutions, communications infrastructure, network equipment, storage and backup, encryption equipment, and software licenses necessary to modify US BICES-X capabilities, as THE core infrastructure and enterprise for the intelligence component of the DoD MPE.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 **P-1 Line Item Number / Title:** 832050 / International Intel Tech & Architectures **Aggregated Items Title:** International Intel Tech & Architectures

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware																				
Capability Modifications	A		-	-	-	10.854	1	10.854	10.251	1	10.251	1.500	1	1.500	-	-	-	1.500	1	1.500
Infrastructure Hardware	A		-	-	-	-	-	-	-	-	-	0.500	1	0.500	-	-	-	0.500	1	0.500
Subtotal: Hardware			-	-	-	-	-	10.854	-	-	10.251	-	-	2.000	-	-	-	-	-	2.000
Software																				
Software Licenses	A		-	-	-	0.076	7	0.532	0.076	7	0.532	-	-	-	-	-	-	-	-	-
Software	A		-	-	-	-	-	-	-	-	-	3.809	1	3.809	-	-	-	3.809	1	3.809
Subtotal: Software			-	-	-	-	-	0.532	-	-	0.532	-	-	3.809	-	-	-	-	-	3.809
Total			-	-	-	-	-	11.386	-	-	10.783	-	-	5.809	-	-	-	-	-	5.809

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

Remarks:
 BY includes \$1.5M for Pacific Defense Initiative funding to procurement capability modifications.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	7.619	6.349	5.719	-	5.719	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	7.619	6.349	5.719	-	5.719	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	7.619	6.349	5.719	-	5.719	-	-	-	-	-	-

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

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

Description:

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

PE 0804733F GENERAL INTELLIGENCE SKILL TRAINING (GIST)

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

Funding for this exhibit contained in PE 0804733F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs **P-1 Line Item Number / Title:** 832060 / Intelligence Training Equipment

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Intelligence Training Equipment				- / -	- / 7.619	- / 6.349	- / 5.719	- / -	- / 5.719
P-40	Total Gross/Weapon System Cost				- / -	- / 7.619	- / 6.349	- / 5.719	- / -	- / 5.719

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

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

Justification:

PE 0804733F GENERAL INTELLIGENCE SKILL TRAINING

GOODFELLOW INTELLIGENCE TRAINING ARCHITECTURE (GITA) FY22 funding will used be on the GITA infrastructure to modernize/upgrade the training network backbone and delivery systems supporting over 7600 students annually. Upgrades ensure that GITA meets/exceeds the latest in cyber security requirements at each security level. GITA provides lifecycle support of the hardware and software required to deliver training designed to meet operational customer requirements. GITA encompasses the following: student workstations; network; servers; storage solutions; thin client technology; scenario-based modeling and simulation models; courseware development software; delivery servers; application hardware; and networking equipment. GITA aligns technologies with advanced teaching techniques; increases system capabilities to support ever-evolving operational intelligence tools; and addresses uncertainty in continued sustainment capabilities to reduce failure rates and outages.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 **P-1 Line Item Number / Title:** 832060 / Intelligence Training Equipment **Aggregated Items Title:** Intelligence Training Equipment

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Goodfellow Intelligence Training Architecture (GITA)																				
GITA UPGRADE	A		-	-	-	-	-	7.619	-	-	6.349	-	-	5.719	-	-	-	-	-	5.719
Subtotal: Goodfellow Intelligence Training Architecture (GITA)			-	-	-	-	-	7.619	-	-	6.349	-	-	5.719	-	-	-	-	-	5.719
Total			-	-	-	-	-	7.619	-	-	6.349	-	-	5.719	-	-	-	-	-	5.719

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs **P-1 Line Item Number / Title:** 832070 / Intelligence Comm Equipment

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305022F, 0305220F, 0305221F, 1203400F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	30.048	31.771	25.844	-	25.844	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	30.048	31.771	25.844	-	25.844	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	30.048	31.771	25.844	-	25.844	-	-	-	-	-	-

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

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

Description:

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

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

UNIT LEVEL INTELLIGENCE (ULI) SYSTEMS & Center of Excellence (COE): ULI fields the Toolkit for Intelligence Targeting Analysis (TITAN) and Targeting Application Workstation (TAW) systems which are used by intelligence analysts to produce Targeting and Mission Planning materials. The ULI COE provides reach back support for the field units on hardware and software issues. The COE also provides MX/IA patch development and distribution services.

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

Targeting and Geospatial-Intelligence (T&G) Program Management Office (PMO): Provides the infrastructure that enables the agile development, sustainment, and fielding of new T&G capabilities, and ensures that the technical baseline is established and controlled by the Government. Sustainment includes help desk support, documentation, information assurance, STIGs/TCNOs, software patches and fixes. Fielding supports ULI, eGPL, JTT, IOTA, and any new T&G capability not fielded via other paths.

This program is part of the overarching Kessel Run portfolio.

PE 0208288F Intel Data Applications - P-40A

Enhance existing radar system via additional antennas and transmitters in order to expand simultaneous collection capability while providing an permanent capability for operations eliminating the need for full system maintenance downtime.

PE 0305022F ISR Modernization & Automation Dvmt (IMAD) - P-40A

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs		P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305022F, 0305220F, 0305221F, 1203400F
Line Item MDAP/MAIS Code: N/A		
<p>Develops and demonstrates technology required to implement automation and machine intelligence on ISR systems. It is an innovation-driven fund which enables new technologies, capabilities, and Airman ideas to receive "kick-start funding. SECAF directed the AF to invest in a more automated environment to relieve strain on manpower in the out years; IMAD was started to create ISR enterprise-wide effects using machine intelligence.</p> <p>PE 0305146F Defense Joint Counterintelligence Activities - P-40A Enables Cyber Counterintelligence and Technical Surveillance/Technical Surveillance Countermeasures (TSCM) support to counterintelligence operations conducted by the Air Force Office of Special Investigations (AFOSI) for AF and DoD entities, to detect and deter covert activities conducted by Foreign Intelligence Services seeking to compromise classified or sensitive information. The technical equipment required for these investigations is unique and complex, and is a part of the formally designated USAF TSCM weapons system and/or the Cyber Counterintelligence suite of tools.</p> <p>PE 0305179F Integrated Broadcast Service (IBS) - P-40A INTEGRATED BROADCAST SERVICE (IBS): The IBS is a multi-sensor, multisource system of systems for the dissemination of integrated threat warning and blue force tracking information. IBS provides intelligence producers and information sources the means to analyze and disseminate strategic, operational, and tactical intelligence and warning information directly to the warfighter. The IBS operational baseline represents the migration, integration, and consolidation of existing tactical data dissemination into a future common architecture message format. In FY22 Modernization efforts commence to expand to updated UHF SATCOM Wide-band Code Division Multiple Access broadcasts, receiver software to drive interoperability and integrated next generation terminals at Common Integrated Broadcast Uplink sites.</p> <p>PE 0305192F Military Intelligence Program (MIP) Activities - P-40A Will fund information recovery technology for Enterprise Service Centers. Funds will also be used to procure servers, storage devices, associated hardware upgrades, and installation costs.</p> <p>PE 0305221F Network-Centric Collaborative Targeting - P-40A Network Centric Collaborative Targeting (NCCT) is the Air Force program of record for geo-location and is responsible for developing the fusion engine supporting the horizontal and/or vertical integration of Intelligence, Surveillance and Reconnaissance (ISR) sensor systems. The result of such integration is a multi-intelligence (multi-INT) sensor network. Operationally, NCCT Core Technologies provide a tactical collaborative multi-INT geolocation capability employed against high-value targets. NCCT software supports Machine-to-Machine (M2M) cross-cueing and Internet Protocol (IP) connectivity to coordinate collection activities across the NCCT network. NCCT correlation and fusion software ingests collection data to produce a single, composite track (geolocation and identification) in near real-time for high-value targets. NCCT research and development funding supports evolutionary development of the NCCT message set and network management systems (for example Operations Interfaces, Network Controllers, Fusion Engines, Data Guards, Interface to Command & Control, and Interface to Overhead Intelligence Operations (OIO)), the migration of the technologies to emerging network centric technologies, global web-enabled services, while satisfying DoD standards and Information Assurance requirements.</p> <p>NCCT Core Technology include network management software, a network messaging standard, correlation and fusion software, software supporting tactical-to-national Signals Intelligence (SIGINT) Concept of Operations (CONOPS), multi-level security hardware and software items and operator interfaces. Development funds support software modifications required for technology modernization specific to network and fusion architecture design, data fusion algorithms and cyber security, while keeping pace with evolving adversary tactics, techniques, and procedures (TTPs). FY 2022 funding will be dedicated to completing the transition of NCCT Core Technology to a cloud-enabled architecture across the enterprise to support integration with Advanced Battle Management System (ABMS) and the Sensing Grid, developing new multi-INT use cases, and the continuation of rapid software deliveries based on continuous user feedback.</p> <p>Funding for this exhibit contained in PE 0305221F.</p> <p>PE 0307577F Intelligence Mission Data (IMD) - P-40A Funding will enable procurement of equipment for Advanced NCTR Collect and storage systems supporting Operational Reconnaissance data automation.</p> <p>PE 1203400F Space Superiority Intelligence - P-40A PE 123400F, SPACE SUPERIORITY INTELLIGENCE</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs		P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305022F, 0305220F, 0305221F, 1203400F
Line Item MDAP/MAIS Code: N/A		
<p>This PE executes requirements for SSI. Funds may be used for other AFNet requirements if required. Current year funding includes 2M in Overseas Contingency Operations funds requested in the FY18 PB.</p> <p>ARC STORM: Uses commercially available technology and systems to provide the rapid geo-location of commercial satellite communication emitter locations, utilizing unmanned, remotely operated systems located in key area throughout the world.</p> <p>Funds are required to re-capitalize current fielded systems that have operated for 4 years. Processing equipment runs 24/7 to support high utilization rates. Antennas and supporting equipment are fully exposed to the elements, experience a great deal of physical movement, and are reaching end of life expectancy.</p> <p>ARC STORM systems will become inoperable without equipment recapitalization; resulting in loss of geo-location collection. Funds will allow immediate re-capitalization of two fielded systems plus an additional spare, allowing for continued support to operations.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305022F, 0305220F, 0305221F, 1203400F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Combat Air Intelligence System Activities				- / -	- / 5.363	- / 14.535	- / 3.066	- / -	- / 3.066
P-40a	ISR Modernization & Automation Dvmt (IMAD)				- / -	- / 0.000	- / 1.580	- / 3.468	- / -	- / 3.468
P-40a	Defense Joint Counterintelligence Activities				- / -	- / 2.644	- / 2.507	- / 2.691	- / -	- / 2.691
P-40a	Integrated Broadcast Service (IBS)				- / -	- / 14.743	- / 5.727	- / 9.145	- / -	- / 9.145
P-40a	Military Intelligence Program (MIP) Activities				- / -	- / 4.150	- / 3.949	- / 4.249	- / -	- / 4.249
P-40a	Network-Centric Collaborative Targeting				- / -	- / 3.148	- / 2.997	- / 3.225	- / -	- / 3.225
P-40a	Intelligence Mission Data (IMD)				- / -	- / 0.000	- / 0.476	- / 0.000	- / -	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 30.048	- / 31.771	- / 25.844	- / -	- / 25.844

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

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

Justification:

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

ENHANCED GEOSPATIAL PRODUCT LIBRARY (EGPL): FY-22 funding provides for the capital equipment replacement of EGPL servers, drives, and associated equipment to ensure current, dependable data repository for intelligence threat assessment and combat mission planning support at over 260 units worldwide.

UNIT LEVEL INTELLIGENCE (ULI) SYSTEMS & Center of Excellence (COE): FY-22 funding provides for the capital equipment replacement of ULI systems providing crucial capabilities to the Warfighter to include Intelligence Preparation of the Operational Environment (IPOE), data gathering and compilation, support to mission execution, intelligence reporting, targeting, weapon systems video processing, and post-mission assessment support at over 327 units worldwide. The COE is critical to the ULI mission performing all system integration work, functional testing, cyber security scans, MX/IA releases, help desk support, and fields the hardware and software components needed to successfully employ the Targeting Applications Workstation and the Toolkit for Intelligence Targeting Analysis.

JOINT TARGETING TOOLBOX (JTT): FY-22 funding will be used to provide software sustainment and fielding support for existing JTT operational instances. This includes Help Desk, training, and MX/IA patch updates. In addition, funding will support the testing and fielding of the JTT software into a non-GCCS stand alone cloud environment for greater accessibility and maintenance response capability.

Targeting and Geospatial Intelligence (T&G) PMO: FY-22 funding will be used to ensure the T&G PMO maintains management oversight of both the technical and programmatic aspects of existing T&G capabilities.

PE 0305022F ISR Modernization & Automation Dvmt (IMAD) - P-40A

FY22 funding required to procure IT, tools and equipment to establish the ISR data lab. The data lab is the central location to provide data engineering and science support across the ISR enterprise. The IT equipment is required for kill chain automation to centrally manage ISR data wrangling, data aggregation, AI/machine learning, tool development, and automation.

PE 0305146F Defense Joint Counterintelligence Activities - P-40A

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs		P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305022F, 0305220F, 0305221F, 1203400F
Line Item MDAP/MAIS Code: N/A		
<p>FY22 funding procures equipment to provide state of the art capabilities to detect and neutralize foreign intelligence entity (FIE) and criminal activities targeted against sensitive and classified AF and DoD information and activities.</p> <p>PE 0305179F Integrated Broadcast Service (IBS) - P-40A FY22 funding for IBS procurement efforts are focused in the following areas:</p> <ol style="list-style-type: none"> 1. CIB UPLINK SITE (CUS) Serves as the control system for the CIB Uplink Site and interface to the IBS Network Services (IBS-NS) modernization of the software to accept the next generation Joint Tactical Terminals. Each major release of the software incorporates approved requirements as necessitated by mission changes, system interoperability requirements, and system security. The new release supports migration to CIB Uplink Sites. 2. COMMON INTERACTIVE BROADCAST/INTEGRATED WAVEFORM PLANNING TOOL (CIB/IW-PT): The CIB-PT provides the COCOM Planners an integrated software/hardware mechanism to allocate space-based communications resources to theater and national producers, specifically to reliably optimize the timeliness of scarce bandwidth allocation of extremely time-critical messages. Each major release of the software/hardware incorporates updated producer prioritization, bandwidth allocation, mission monitoring and interfaces to the STRATCOM systems as necessitated by mission changes, system interoperability, and system security compliance to achieve threshold requirements. 3. COMMON MESSAGE FORMAT PARSER LIBRARY (CMFPL): The CMF repository is required for the automatic exchange of data among processing, exploitation, and dissemination (PED) systems. This effort procures the infrastructure for dynamic software library updates for multiple operating systems essential to broadcast operation. 4. IBS V&V Environment: Procures simulation and stimulation tools to certify and verify mission equipment for operational use. Included is software/hardware/firmware components of the IBS verification and validation process used to emulate multiple systems messaging under operational conditions and the UNIVERSAL CIB TEST SET (UCTS) a component that emulates the UHF SATCOM environment. 5. TERMINAL, DATALINK, & ENTERPRISE SERVER MITIGATION: Funds direct mission support activities such as verification & validation documentation; uplink receive and transmit terminal upgrade, enhancements and spares; mitigation; CMF product support; JOINT TACTICAL DATA LINK, i.e., Link 16 support; product documentation; studies and analyses; IBS Web Support and contractor system engineering activities. Will include modernization upgrades transitioning to cloud servers. 6. IBS-NS: Scaling capability is required for messaging under operational use. Funds approved modernization of Global IBS Network Servers (GINS) and Theater Interface Nodes (TINS), technology refreshment and integration as necessitated by mission changes, system interoperability, and system security. 7. Downlink Monitoring Element (DME): Monitoring tool that monitors IBS activity. <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>PE 0305192F Military Intelligence Program (MIP) Activities - P-40A FY22 funding will procure information recovery technology for Enterprise Service Centers. Funds will also be used to procure servers, storage devices, associated hardware upgrades, and installation costs.</p> <p>PE 0305221F Network-Centric Collaborative Targeting - P-40A FY 2022 funding will complete cloud development costs in the Platform ONE ABMS product line, user requested upgrades to capabilities, and a fully cloud-enabled architecture. NCCT Core Technology and cloud architecture investments include operational interfaces, network controllers, fusion engines, and data guards for multi-level security hardware and software items based on operator specified rule sets. NCCT cloud architecture will also support developing new multi-INT use cases, the continuation of rapid software deliveries, and Joint demonstrations and exercises as necessary. Due to the rapidly changing threat environment and operational demand from platforms leveraging NCCT capabilities, the acquisition program manager has the authority to redirect funding as necessary to meet currently stated and/or emerging operational requirements.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs		P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305022F, 0305220F, 0305221F, 1203400F
Line Item MDAP/MAIS Code: N/A		
PE 0307577F Intelligence Mission Data (IMD), No funding requested for FY22.		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
CAIS PE 0207431F	A		-	-	-	-	-	1.887	-	-	10.998	0.903	1	0.903	-	-	-	0.903	1	0.903
ULI	A		-	-	-	-	-	3.476	-	-	3.537	2.163	1	2.163	-	-	-	2.163	1	2.163
GPL	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IStore	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GCCS-I3	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COE T&G Integrator	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JTT	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	5.363	-	-	14.535	-	-	3.066	-	-	-	-	-	3.066
Total			-	-	-	-	-	5.363	-	-	14.535	-	-	3.066	-	-	-	-	-	3.066

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2					P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment					Aggregated Items Title: ISR Modernization & Automation Dvmt (IMAD)									

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
IMAD Kill Chain Automation IT Eqmt PE 35022F																				
IT Equipment	A		-	-	-	-	-	0.000	-	-	1.580	-	-	3.468	-	-	-	-	-	3.468
Subtotal: IMAD Kill Chain Automation IT Eqmt PE 35022F			-	-	-	-	-	0.000	-	-	1.580	-	-	3.468	-	-	-	-	-	3.468
Total			-	-	-	-	-	0.000	-	-	1.580	-	-	3.468	-	-	-	-	-	3.468

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2							P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment								Aggregated Items Title: Defense Joint Counterintelligence Activities				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
DEFENSE JOINT COUNTERINTELLIGENCE PROGRAM PE 0305146F	A		-	-	-	-	-	2.644	-	-	2.507	-	-	2.691	-	-	-	-	-	2.691
Subtotal: Uncategorized			-	-	-	-	-	2.644	-	-	2.507	-	-	2.691	-	-	-	-	-	2.691
Total			-	-	-	-	-	2.644	-	-	2.507	-	-	2.691	-	-	-	-	-	2.691

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Integrated Broadcast Service-Network Services																				
Downlink Monitoring Element (DME)	A		-	-	-	-	-	-	-	-	-	-	-	0.750	-	-	-	-	-	0.750
PMA- Travel	A		-	-	-	-	-	-	-	0.059	-	-	0.020	-	-	-	-	-	-	0.020
CIB Uplink Site	A		-	-	-	-	-	3.425	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000
COMMON INTERACTIVE BROADCAST PLANNING TOOL (CIB-PT)	A		-	-	-	-	-	1.325	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000
COMMON MESSAGE FORMAT PARSER LIBRARY (CMFPL)	A		-	-	-	-	-	2.300	-	-	0.800	-	-	1.000	-	-	-	-	-	1.000
IBS V&V	A		-	-	-	-	-	3.625	-	-	0.500	-	-	0.500	-	-	-	-	-	0.500
TERMINAL, DATALINK, & ENTERPRISE SERVER MIGRATION	A		-	-	-	-	-	2.700	-	-	1.000	-	-	1.148	-	-	-	-	-	1.148
Next Generation	A		-	-	-	-	-	-	-	-	-	-	-	1.227	-	-	-	-	-	1.227
IBS-NS	A		-	-	-	-	-	1.368	-	-	1.368	-	-	2.500	-	-	-	-	-	2.500
Subtotal: Integrated Broadcast Service-Network Services			-	-	-	-	-	14.743	-	-	5.727	-	-	9.145	-	-	-	-	-	9.145
Total			-	-	-	-	-	14.743	-	-	5.727	-	-	9.145	-	-	-	-	-	9.145

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

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2						P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment						Aggregated Items Title: Military Intelligence Program (MIP) Activities							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Equipment																				
Equipment	A		-	-	-	4.150	1	4.150	3.949	1	3.949	4.249	1	4.249	-	-	-	4.249	1	4.249
Subtotal: Equipment			-	-	-	-	-	4.150	-	-	3.949	-	-	4.249	-	-	-	-	-	4.249
Total			-	-	-	-	-	4.150	-	-	3.949	-	-	4.249	-	-	-	-	-	4.249

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized (1)																				
Network Centric Collaborative Targeting	A		-	-	-	-	-	1.734	-	-	2.997	-	-	3.225	-	-	-	-	-	3.225
PMA Contractor Services	A		-	-	-	-	-	1.414	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized (1)			-	-	-	-	-	3.148	-	-	2.997	-	-	3.225	-	-	-	-	-	3.225
Total			-	-	-	-	-	3.148	-	-	2.997	-	-	3.225	-	-	-	-	-	3.225

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Intelligence Mission Data (IMD)																				
Operational Reconnaissance Data Automation	A		-	-	-	-	-	0.000	-	-	0.476	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Intelligence Mission Data (IMD)			-	-	-	-	-	0.000	-	-	0.476	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	0.000	-	-	0.476	-	-	0.000	-	-	-	-	-	0.000

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	22.939	25.842	44.516	-	44.516	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	22.939	25.842	44.516	-	44.516	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	22.939	25.842	44.516	-	44.516	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	1.394	1.451	1.308	-	1.308	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

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

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

AIR TRAFFIC CONTROL AND AIRFIELD OPERATIONS (ATC OPS): ATC OPS provides for procurement of new systems and replacement, modification, or mitigation of diminishing manufacturing source issues of legacy ATC navigation and landing systems, as well as related voice communications, data processing/automation systems, and ancillary equipment such as ATC digital audio legal recorders, flight data input/output systems, electronic flight strip systems, air traffic information systems, terminal instrument procedures, and airfield management systems. Key elements of ATC OPS are:

1. DIGITAL AIR TRAFFIC CONTROL (ATC) RADIO REPLACEMENT: The 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 ATC fixed-base and mobile ATC tower radios with state-of-the-art systems and 8.33kHz channel spacing (mandatory requirement in Europe by FY2018, completed on time). 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. The Digital ATC Radios are procured through an FAA contract the last year of which is FY24. To avoid the need for a new contract, unit cost increases, and new logistics tails, a funding ramp in FY22 is required to ensure procurement and installation completion by FY24.

2. DEPLOYABLE INSTRUMENT LANDING SYSTEM (D-ILS): D-ILS is a Category I (200ft decision height/2400ft runway visual range) ILS with remote monitoring and maintenance capabilities. D-ILS will provide precision approach capability in adverse weather conditions to support tactical military and worldwide humanitarian/disaster relief operations and provide interoperability with the Civil Reserve Air Fleet in an area of responsibility. D-ILS also replaces the current Air Force mobile Precision Approach Radar (PAR) system. The PAR systems were procured in the 1970s, are manpower intensive, and logistically unsupportable. On average, only two of 14 mobile PAR systems are operational on a daily basis and none are fully mission capable. Due to diminishing manufacturing sources, life of type purchases will be

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

required as needed. A total of 21 systems are in contract (8 AD, 10 Air National Guard (ANG), one depot rotable, and one trainer), and an organic depot also will be established. D-ILS is normally deployed with the Deployable Radar Approach Control System, a mobile Air Traffic Control Tower, and Man-Portable TACAN.

3. **DEPLOYABLE RADAR APPROACH CONTROL SYSTEM (D-RAPCON):** D-RAPCON will replace the 1960/1970s era AN/MPN-14K and AN/TPN-19 systems with state-of-the-art digital systems. In Jan 20, due to changes in National Defense Strategy (NDS) and accompanying Agile Combat Employment (ACE) CONOPS, D-RAPCON was restructured and the associated contract cancelled. The NDS and ACE capabilities focused on adaptive, highly mobile, and scalable capabilities that the initial D-RAPCON program, based on a re-configured fixed base system, did not support. The restructured D-RAPCON solution, based on industry responses to a request for information, identified an existing system in use by the Army and Marine Corps that meets Air Force, NDS and ACE requirements. D-RAPCON will now pursue an updated version of the Air Traffic Navigation Integration and Coordination System (ATNAVICS). The updated system, designated the Lightweight Deployable Ground Controlled Approach (LD-GCA), will include an airport surveillance radar, precision approach radar, secure jam-resistant voice communication, and Mode 5 Identification Friend or Foe capabilities. LD-GCA will provide tactical, humanitarian, disaster relief, ATC capability with quicker setup/teardown time, reduced manpower and airlift requirement (transportable in a single C-130J). Using existing FY19 funds, two surplus systems from the Army will be refurbished and upgraded. The refurbishment contract was awarded to Raytheon on 11 Mar 21.

4. **ATCALs Fixed Base (FB) Navigational Aids (NAVAIDS) FOS:** The FB NAVAIDS FOS program replaces the current 1970s era systems which have reached the end of their normal lifespan, are manpower intensive, and costly to support. This program modernizes 121 legacy systems at 96 locations with modern transmitters and remote maintenance & monitoring equipment. Mid-way through the production and installation phase, the program was delayed for 11 months due to a un-interrupted power supply issue caused by counterfeit parts. Once installations resumed, installations were once again halted due to travel restrictions caused by the COVID-19 pandemic. These delays put the program two years behind schedule resulting in a program new start in FY20 to complete system installations (last year of program funding was FY18). Once completed, these systems will provide a reliable, adaptable, and enduring capability that supports all joint, coalition, and civil operations worldwide.

5. **FIXED BASE INSTRUMENT LANDING SYSTEM (FB ILS):** FB ILS consists of two subsystems which provide horizontal (localizer) and vertical (glide slope) guidance to enable aircraft to make a precision approach to a runway in inclement weather. FY21 funds procure two systems for installation on new runway at Osan AB, Korea.

6. **FIXED BASE PRECISION APPROACH RADAR (PAR):** The fixed base 1970s era PAR AN/GPN-22 systems have been in service beyond its originally planned end of life cycle of the late 1990's. A replacement is required as the current system is not economically supportable. Due to the age of the system, maintenance costs, obsolescence, diminishing manufacturing sources, and reliability problems have increased. Most fixed base PARs have already been replaced with fixed base ILSs; however, PARs are still required to provide an adverse weather landing capability at select bases. Replacement systems will be procured through an existing Navy fixed price contract.

7. **MAN-PORTABLE Tactical Air Navigation (TACAN):** The Man-Portable TACAN provides aircraft with point-to-point navigating and instrument flight approaches to forward operating sites/landing zones and is critical to mission success in adverse weather conditions. It replaces 40+ year old legacy systems which are no longer supportable. The Man-Portable TACAN also supports the 2018 NDAA National Defense Strategy for rapidly deployable, adaptive, and scalable family of systems. A total of 68 systems will be procured (58 and the Active Duty and 10 for the Air National Guard).

The FY22 funding request was reduced by 2.189M to account for the availability of prior year execution balances.

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

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	417	455	847	0	847	-	-	-	-
	Total Obligation Authority	20.147	22.051	41.666	0.000	41.666	-	-	-	-
AFNG	Quantity	100	199	150	0	150	-	-	-	-
	Total Obligation Authority	1.860	3.791	2.850	0.000	2.850	-	-	-	-
AFR	Quantity	50	0	0	0	0	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force							Date: May 2021		
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									

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
	Total Obligation Authority	0.932	0.000	0.000	0.000	0.000	-	-	-	-
Total:	Quantity	567	654	997	0	997	-	-	-	-
Secondary Distribution	Total Obligation Authority	22.939	25.842	44.516	0.000	44.516	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Digital Air Traffic Control Radio Replacement				- / -	- / 11.626	- / 13.208	- / 19.669	- / -	- / 19.669
P-5	D-ILS		A		- / -	- / 5.000	- / 1.502	- / 9.995	- / -	- / 9.995
P-5	Deployable Radar Approach Control (D-RAPCON)		A		- / -	- / 5.363	- / 0.062	- / 8.828	- / -	- / 8.828
P-40a	FB NAVAIDS FOS TACAN/VORTAC				- / -	- / 0.950	- / -	- / -	- / -	- / -
P-40a	Fixed Base ILS				- / -	- / -	- / 1.498	- / -	- / -	- / -
P-40a	Fixed Base Precision Approach Radar (PAR)				- / -	- / -	- / 9.572	- / -	- / -	- / -
P-40a	Manportable TACAN				- / -	- / -	- / -	- / 6.024	- / -	- / 6.024
P-40	Total Gross/Weapon System Cost				- / -	- / 22.939	- / 25.842	- / 44.516	- / -	- / 44.516

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

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

Justification:
 This program, Air Traffic Control & Landing Sys P-40A Category Man-portable TACAN Equipment Item Man-portable TACAN System, is a new start.

1. DIGITAL AIR TRAFFIC CONTROL (ATC) RADIO REPLACEMENT: FY22 funds procure 992 systems (842 AD/150 ANG/0 AFR).
2. DEPLOYABLE INSTRUMENT LANDING SYSTEM (D-ILS): FY22 - Funds procure Program Management Administration (PMA) Contractor Services/Other Government Costs, Interim Contractor Support (ICS), Tech Data Package (TDP), and Engineering Change Proposals (ECPs).
3. DEPLOYABLE RADAR APPROACH CONTROL (D-RAPCON): FY22 - Funds procure PMA Contractor Services, Interim Contactor Support (ICS), Non-Recurring Engineering, Training and Field Support, Government Furnished Equip, and ECPs.
4. ATCALs Fixed Base (FB) Navigational Aids (NAVAIDS) Family of Systems (FOS): No Budget Year FY22 funds requested.
5. FIXED BASE INSTRUMENT LANDING SYSTEM (FB ILS): No Budget Year FY22 funds are requested.
6. FIXED BASE PRECISION APPROACH RADAR (PAR): No Budget Year FY22 funds are requested
7. MAN-PORTABLE TACAN: FY22 funds procure 5 systems (5 AD/0 ANG/0 AFR)

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3							P-1 Line Item Number / Title: 833010 / Air Traffic Control & Landing Sys								Aggregated Items Title: Digital Air Traffic Control Radio Replacement				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Digital Air Traffic Control (ATC) Radios - Support																				
Digital Air Traffic Control (ATC) Radios - Program Management Support	A		-	-	-	-	-	1.422	-	-	0.850	-	-	0.823	-	-	-	-	-	0.823
<i>Secondary Distribution</i>																				
AF				-	-		-	1.422		-	0.850		-	0.823		-	-		-	0.823
Subtotal: Digital Air Traffic Control (ATC) Radios - Support			-	-	-	-	-	1.422	-	-	0.850	-	-	0.823	-	-	-	-	-	0.823
Digital Air Traffic Control (ATC) Radios																				
Single Channel ATC Radio	A		-	-	-	0.019	540	10.204	0.019	650	12.358	0.019	992	18.846	-	-	-	0.019	992	18.846
<i>Secondary Distribution</i>																				
AF				-	-		390	7.412		451	8.567		842	15.996		-	-		842	15.996
AFNG				-	-		100	1.860		199	3.791		150	2.850		-	-		150	2.850
AFR				-	-		50	0.932		-	-		-	-		-	-		-	-
Subtotal: Digital Air Traffic Control (ATC) Radios			-	-	-	-	-	10.204	-	-	12.358	-	-	18.846	-	-	-	-	-	18.846
Total			-	-	-	-	-	11.626	-	-	13.208	-	-	19.669	-	-	-	-	-	19.669

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

Remarks:

The ATC radios are identified in supply system as centrally managed are being procured by the Air Force Life cycle Management Center at Tinker AFB through an FAA contract awarded to General Dynamics with fixed price options. Funding increase in FY22 was necessary to complete procurement and installation of all required radios before the end of the FAA contract in FY24. Additionally, in FY21 a Congressional mark reduced the ATCALS PE \$3.567M - "DARC excess to need". In FY21 Deployable ATC Radar Capability line there was just \$62K and the Digital ATC radio program was the only place to source the reduction.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833010 / Air Traffic Control & Landing Sys	Item Number / Title [DODIC]: D-ILS
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	5.000	1.502	9.995	-	9.995
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	5.000	1.502	9.995	-	9.995
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	5.000	1.502	9.995	-	9.995

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support - D-ILS Cost																		
Direct Mission Support (GFE/SE)	-	-	-	-	-	0.150	-	-	-	-	-	-	-	-	-	-	-	-
PMA Contractor Services AFLCMC (Hanscom AFB)	-	-	-	-	-	-	-	-	1.502	-	-	0.389	-	-	-	-	-	0.389
Interim Contractor Support	-	-	-	-	-	1.246	-	-	-	-	-	1.291	-	-	-	-	-	1.291
TDP	-	-	-	-	-	1.516	-	-	-	-	-	8.315	-	-	-	-	-	8.315
Contractor Program Management	-	-	-	-	-	2.088	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - D-ILS Cost</i>	-	-	-	-	-	5.000	-	-	1.502	-	-	9.995	-	-	-	-	-	9.995
Gross/Weapon System Cost	-	-	-	-	-	5.000	-	-	1.502	-	-	9.995	-	-	-	-	-	9.995

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	5.000	1.502	9.995	-	9.995
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	5.000	1.502	9.995	-	9.995

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833010 / Air Traffic Control & Landing Sys	Item Number / Title [DODIC]: Deployable Radar Approach Control (D-RAPCON)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	5.363	0.062	8.828	-	8.828
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	5.363	0.062	8.828	-	8.828
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	5.363	0.062	8.828	-	8.828

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

Initial Spares (\$ in Millions)	-	0.950	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support - D-RAPCON Cost																		
NRE/ECO	-	-	-	-	-	1.073	-	-	-	-	-	1.631	-	-	-	-	-	1.631
Direct Mission Support/ GFE	-	-	-	-	-	0.380	-	-	-	-	-	0.991	-	-	-	-	-	0.991
PMA Contractor Services AFLCMC (Hanscom AFB)	-	-	-	-	-	3.910	-	-	0.062	-	-	4.372	-	-	-	-	-	4.372
Diminishing Manufacturing Sources (DMS)	-	-	-	-	-	-	-	-	-	-	-	0.841	-	-	-	-	-	0.841
Contractor Training/ Fielding Support	-	-	-	-	-	-	-	-	-	-	-	0.993	-	-	-	-	-	0.993
Subtotal: Support - D-RAPCON Cost	-	-	-	-	-	5.363	-	-	0.062	-	-	8.828	-	-	-	-	-	8.828
Gross/Weapon System Cost	-	-	-	-	-	5.363	-	-	0.062	-	-	8.828	-	-	-	-	-	8.828

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	5.363	0.062	8.828	-	8.828
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	-	0.000
AFR	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833010 / Air Traffic Control & Landing Sys	Item Number / Title [DODIC]: Deployable Radar Approach Control (D-RAPCON)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Total Obligation Authority	0.000	0.000	0.000	-	0.000
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	5.363	0.062	8.828	-	8.828

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833010 / Air Traffic Control & Landing Sys	Aggregated Items Title: FB NAVAIDS FOS TACAN/VORTAC
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
System Installation																				
FB NAVAID FOS TACAN/VORTAC Installation Support	A		-	-	-	0.035	27	0.950	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF				-	-		27	0.950		-	-		-	-		-	-		-	
Subtotal: System Installation			-	-	-	-	-	0.950	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	0.950	-	-	-	-	-	-	-	-	-	-	-	

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833010 / Air Traffic Control & Landing Sys	Aggregated Items Title: Fixed Base ILS
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Fixed Base Instrument Landing System																				
AN/GRN-29 ILS	A		-	-	-	-	-	-	0.749	2	1.498	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-		2	1.498		-	-		-	-		-	-
Subtotal: Fixed Base Instrument Landing System			-	-	-	-	-	-	-	-	1.498	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	1.498	-	-	-	-	-	-	-	-	-

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3					P-1 Line Item Number / Title: 833010 / Air Traffic Control & Landing Sys										Aggregated Items Title: Fixed Base Precision Approach Radar (PAR)				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Fixed Base Precision Approach Radar (PAR)																				
Precision Approach Radar	A		-	-	-	-	-	-	4.786	2	9.572	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-		-	-		2	9.572		-	-		-	-		-	-
Subtotal: Fixed Base Precision Approach Radar (PAR)			-	-	-	-	-	-	-	-	9.572	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	9.572	-	-	-	-	-	-	-	-	-

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 **P-1 Line Item Number / Title:** 833010 / Air Traffic Control & Landing Sys **Aggregated Items Title:** Manportable TACAN

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Man-portable TACAN Support																				
Man-portable TACAN Program Management	A		-	-	-	-	-	-	-	-	-	-	-	0.586	-	-	-	-	-	0.586
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-	-	-	-	0.586		-	-		-	0.586
Subtotal: Man-portable TACAN Support			-	-	-	-	-	-	-	-	-	-	-	0.586	-	-	-	-	-	0.586
Man-portable TACAN Equipment																				
Man-portable TACAN System	A		-	-	-	-	-	-	-	-	-	1.088	5	5.438	-	-	-	1.088	5	5.438
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-	-		5	5.438		-	-		5	5.438
AFNG				-	-	-	-	-	-	-	-			0.000		-	-		-	0.000
AFR				-	-	-	-	-	-	-	-			0.000		-	-		-	0.000
Subtotal: Man-portable TACAN Equipment			-	-	-	-	-	-	-	-	-	-	-	5.438	-	-	-	-	-	5.438
Total			-	-	-	-	-	-	-	-	-	-	-	6.024	-	-	-	-	-	6.024

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

Remarks:
Manportable TACAN is a FY22 new start.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

ID Code (A=Service Ready, B=Not Service Ready): **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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	3.063	7.909	2.940	-	2.940	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	3.063	7.909	2.940	-	2.940	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	3.063	7.909	2.940	-	2.940	-	-	-	-	-	-

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

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

Description:

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

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

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

BATTLE CONTROL SYSTEM MODERNIZATION: Provides for capital equipment replacement activities at the fixed Air Defense Sectors, which include, but are not limited to: infrastructure upgrades, future Diminishing Manufacturing Sources (DMS), and replacement of other equipment that does not qualify for Centralized Asset Management (CAM) funding.

Funding for this exhibit contained in PE 0102326F.

Justification:

- NATIONAL CAPITAL REGION - INTEGRATED AIR DEFENSE SYSTEM (NCR-IADS): FY2022 funds will include, but are not limited to, support hardware upgrades to seamlessly integrate new and emerging sensors, data, and technologies. Funds will be utilized for hardware upgrades and spares that do not qualify for Centralized Asset Management (CAM) funding, updated configurations of existing sites to match the modified baseline, and hardware to maintain the mandated cyber security posture and Authority to Operate (ATO) requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		P-1 Line Item Number / Title: 833030 / Battle Control System - Fixed
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>- BATTLE CONTROL SYSTEM MODERNIZATION: FY2022 funds will include, but are not limited to, support hardware upgrades to seamlessly integrate new and emerging sensors, data, and technologies. Funds will be utilized for hardware upgrades and spares that do not qualify for Centralized Asset Management (CAM) funding, updated configurations of existing sites to match the modified baseline, and hardware to maintain the mandated cyber security posture and Authority to Operate (ATO) requirements.</p> <p>- PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY2022 funds for PMA costs provide the management, engineering and technical support for the program office.</p> <p>- This funding request supports potential Diminishing Manufacturing Sources (DMS) and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207412F **Other Related Program Elements:** 0207412F, 0207455F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	32.632	43.442	-	43.442	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	32.632	43.442	-	43.442	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	32.632	43.442	-	43.442	-	-	-	-	-	-

(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 Control and Reporting Center (CRC) is a mobile, ground-based theater air control system (TACS) surveillance and battle management command and control (BMC2) element. It is a customizable, modular, transportable, and persistent weapon system employed at the tactical level to support air and surface operations to provide direct command and control to all air assets in an assigned Area of Responsibility (AOR) and to report back to the Joint Force Air Combat Commander (JFACC). The CRC is a family of systems which include: AN/TYQ-23A(V)1 Tactical Air Operations Module (TAOM), AN/TSC-147 Joint Tactical Information Distribution System (JTIDS) Module, AN/TRC-213/214 Remote Radio Secure Voice System (RRSVS), and the AN/TPS-75 Radar, CRC's organic radar. Air Combat Command (ACC) CRC Capability Roadmap provides for the modernization of this family of systems and will be programmed into phased updates through 2037. In order to meet warfighter requirements, the CRC will be modernized incrementally. Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

Budget Year FY22 totals include \$24.784M requested for European Defense Initiative (EDI) costs. The EDI will purchase the following hardware: a Joint Air Defense Operations Center (JADOC), Army Persistent Long-range Surveillance (APLS) Sensors, Theater Operationally Resilient C2 (TORCC) systems, an MPQ-64F1 Sentinel Radar and Electro-Optical/Infra-Red (EO/IR) Cameras. EDI effort will provide and meet USEUCOM warfighters' mandated requirements for Integrated Air and Missile Defense (IAMD) and Tactical Command and Control (TAC2). The Sentinel Radars, multiple ALPS sensors, and deployable TAC2 systems will ensure USAFE and NATO retain interoperability and resilience in Great Power Competition with Russia. USAFE's JADOC will fuse multiple joint, allied, and coalition systems into a single integrated air defense architecture to provide robust defense against Russian long range air threats.

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 0207412F.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.000	26.832	35.467	0.000	35.467	-	-	-	-
AFNG	Quantity	0	0	0	0	0	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force							Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs					P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvemen					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: 0207412F			Other Related Program Elements: 0207412F, 0207455F				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
	Total Obligation Authority	0.000	5.800	7.975	0.000	7.975	-	-	-	-
AFR	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	-	-	-	-
Total:	Quantity	0	0	0	0	0	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.000	32.632	43.442	0.000	43.442	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207412F **Other Related Program Elements:** 0207412F, 0207455F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / CRC RRSVS RADIO MOD UPGRADE (Other)		A		- / -	- / -	- / 13.374	- / 18.658	- / 0.000	- / 18.658
P-40a	Theater Air Control System Improvement				- / -	- / 0.000	- / 19.258	- / 24.784	- / 0.000	- / 24.784
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 32.632	- / 43.442	- / -	- / 43.442

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

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

Justification:
 FY22 funding supports the following:

a). Radios (P-3A) with upgraded software for the AN/TRC-214, similar to those within the AN/TRC-213. This will allow the AN/TRC-214 to support and utilize other capabilities such as the Mobile User Objective System (MUOS) constellation of satellites, Integrated Waveform (IW), Second generation Anti-jam Tactical Ultra High Frequency Radio for NATO (SATURN), and updated High Frequency (HF) to provide Gen4 radio to new "D MIL-STD's (Wideband HF, Automatic Link Establishment (ALE)). In addition the upgrade will provide a remote integration of J-Voice with the JTIDS. This upgrade will also ensure sufficient channel capacity for remote radio interface, and interoperability with required crypto equipment and combine channel inputs to enable operators to use J-voice, full Internet Protocol (IP) capability, and allow for external Voice over IP/Voice over Secure IP (VoIP/VoSIP) connectivity.

b). EDI (P-40A) effort will continue purchasing the following hardware: a JADOC, APLS Sensors, TORCC, a MPQ-64F1 Sentinel Radar and EO/IR Cameras.

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvemen	Modification Number / Title: 1 / CRC RRSVS RADIO MOD UPGRADE

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	13.374	18.658	0.000	18.658
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	13.374	18.658	0.000	18.658
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	13.374	18.658	0.000	18.658

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

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

Description:

Radios with upgraded software for the AN/TRC-214, similar to those within the AN/TRC-213. This will allow the AN/TRC-214 to support and utilize other systems such as the MUOS constellation of satellites, IW, and SATURN. This upgrade will ensure sufficient channel capacity for remote radio interface, and interoperability with required crypto equipment and combine channel inputs to enable operators to use J-voice, full IP capability, and allow for external VoIP/VoSIP connectivity. For each every two TRC 214's that are produced, a TRC-213 modification is required for a complete system.

Disclaimer: Current per unit prices and quantities are subject to change upon contract award; however, the total quantity of the requirement will not change.

Milestone/Development Status

Development is currently concluding RDT&E as of May 2022, two Production Representative Units will be completed by Nov 2021, and the Technical Data Package will be completed May 2021.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	-	7.574	10.683	-	10.683
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	5.800	7.975	-	7.975
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	13.374	18.658	0.000	18.658

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Exhibit P-3a, Individual Modification: PB 2022 Air Force						Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3			P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvemen			Modification Number / Title: 1 / CRC RRSVS RADIO MOD UPGRADE	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Models of Systems Affected: RRSVSRadioModernization			Modification Type: Other			Related RDT&E PEs: 0207412F	
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement							
<i>Modification Item 1 of 1:</i> RRSVS Radio Modernization							
B Kits							
Recurring							
RRSVS Radio Modernization:EQUIPMENT Group B (Active)	- / -	- / -	4 / 5.600	6 / 7.675	- / -	6 / 7.675	
RRSVS Radio Modernization:EQUIPMENT Group B (Guard)	- / -	- / -	4 / 5.600	6 / 7.675	- / -	6 / 7.675	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 11.200	- / 15.350	- / -	- / 15.350	
<i>Subtotal: RRSVS Radio Modernization</i>	- / -	- / -	- / 11.200	- / 15.350	- / -	- / 15.350	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 11.200	- / 15.350	- / -	- / 15.350	
Support (All Modification Items)							
Mod of Spares	- / -	- / -	- / 0.032	- / 0.936	- / -	- / 0.936	
PMA - Other Gov't Costs	- / -	- / -	- / 1.742	- / 1.772	- / -	- / 1.772	
<i>Subtotal: Support</i>	- / -	- / -	- / 1.774	- / 2.708	- / -	- / 2.708	
Installation							
<i>Modification Item 1 of 1:</i> RRSVS Radio Modernization	- / -	- / -	8 / 0.400	12 / 0.600	- / -	12 / 0.600	
<i>Subtotal: Installation</i>	- / -	- / -	8 / 0.400	12 / 0.600	- / -	12 / 0.600	
Total							
Total Cost (Procurement + Support + Installation)	-	-	13.374	18.658	0.000	18.658	

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvemen	Modification Number / Title: 1 / CRC RRSVS RADIO MOD UPGRADE

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

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: MD
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 4

Dates	FY 2020	FY 2021	FY 2022
Contract Dates		Nov 2020	Nov 2021
Delivery Dates		Mar 2021	Mar 2022

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	8 / 0.400	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	12 / 0.600	- / -	12 / 0.600
Total	- / -	- / -	8 / 0.400	12 / 0.600	- / -	12 / 0.600

Installation Schedule

PYS	FY 2020				FY 2021				FY 2022				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
In	0	-	-	-	-	8	-	-	-	-	12	-	-
Out	0	-	-	-	-	-	-	8	-	-	-	-	12

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 **P-1 Line Item Number / Title:** 833040 / Theater Air Control Sys Improvemen **Aggregated Items Title:** Theater Air Control System Improvement

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
European Defense Initiative																				
APLS Sensor	A		-	-	-	-	-	0.000	-	-	2.400	-	-	2.400	-	-	0.000	-	-	2.400
<i>Secondary Distribution</i>																				
AF				-	-	-	-	0.000			2.400			2.400			0.000			2.400
MPQ-64F1 Sentinel Radar	A		-	-	-	-	-	0.000	-	-	5.538	-	-	11.304	-	-	0.000	-	-	11.304
<i>Secondary Distribution</i>																				
AF				-	-	-	-	0.000			5.538			11.304			0.000			11.304
JADOC	A		-	-	-	-	-	0.000	-	-	6.600	-	-	6.600	-	-	0.000	-	-	6.600
<i>Secondary Distribution</i>																				
AF				-	-	-	-	0.000			6.600			6.600			0.000			6.600
TORCC	A		-	-	-	-	-	0.000	-	-	4.000	-	-	4.000	-	-	0.000	-	-	4.000
<i>Secondary Distribution</i>																				
AF				-	-	-	-	0.000			4.000			4.000			0.000			4.000
EO/IR Cameras	A		-	-	-	-	-	0.000	-	-	0.720	-	-	0.480	-	-	0.000	-	-	0.480
<i>Secondary Distribution</i>																				
AF				-	-	-	-	0.000			0.720			0.480			0.000			0.480
Subtotal: European Defense Initiative			-	-	-	-	-	0.000	-	-	19.258	-	-	24.784	-	-	0.000	-	-	24.784
Total			-	-	-	-	-	0.000	-	-	19.258	-	-	24.784	-	-	0.000	-	-	24.784

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

Remarks:

The European Defense Initiative (EDI) will purchase the following hardware: a Joint Air Defense Operations Center (JADOC), Army Persistent Long-range Surveillance (APLS) Sensors, Theater Operationally Resilient C2 (TORCC) systems, an MPQ-64F1 Sentinel Radar, and Electro-Optical/Infra-Red (EO/IR) Cameras.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 833060 / 3D Expeditionary Long-Range Radar
Equip / BSA 3: Electronics Programs

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207455F **Other Related Program Elements:** 0207455F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	96.186	-	96.186	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	96.186	-	96.186	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	96.186	-	96.186	-	-	-	-	-	-

(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:

Mission Description: Three-Dimensional Expeditionary Long-Range Radar (3DELRR) Rapid Prototyping is a Middle Tier Acquisition (MTA) program that will become the principal USAF long-range, ground-based sensor for detecting, identifying, tracking and reporting aerial tracks for the Joint Force Air Component Commander (JFACC). The Theater Air Control System that replaces the aging USAF AN/TPS-75 radar system, which is at the end of its service life and costly to maintain & operate. The 3DELRR system will provide multiple benefits and increased capabilities to the USAF and to the Joint Services to include but not limited to 1) Detect and track highly maneuverable, small radar cross section air-breathing targets; 2) Mitigate reliability, operational availability, maintainability, transportability and sustainability issues; 3) Enable greater battlefield and battlespace awareness through its precise, real-time air picture of sufficient quality to control individual aircraft under a wide range of environmental and operational conditions. The Three-Dimensional Expeditionary Long-Range Radar (3DELRR) Rapid Prototyping Middle Tier Acquisition (MTA) program will provide the exchange of information to the United States Marine Corps, Navy and Army via appropriate interfaces.

Additional requirements may include but are not limited to alternatives for bridging capability gaps between the diminishing reliability of the AN/TPS-75 program and the 3DELRR next generation radar's fielding.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 833060 / 3D Expeditionary Long-Range Radar

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207455F **Other Related Program Elements:** 0207455F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	3D Expeditionary Long-Range Radar	P-5a	B		- / -	- / 0.000	- / 0.000	- / 96.186	- / -	- / 96.186
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 0.000	- / 96.186	- / -	- / 96.186

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

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

Justification:

This program is a new start.

Justification: 3DELRR FY22 funding will include but not limited to the production and procurement of up to (6) Initial Production radar units and testing to achieve initial operational capability (IOC).

3DELRR procurement strategy is planned to execute funding on various contract CLIN options for production and procurement of a total of 35 radars.

Additional options are planned for Follow-On Production due to stable requirements and low risk of changes in scope. A mix of Fixed Price (FP) and Cost Plus (CP) options included on the contract will provide scope for the initial six (6) production radars and associated activities. Furthermore, additional remaining option enables the production of the 29 production quality units for a total of 35 units required at Full Operational Capability (FOC).

ICS will be required 15 months after contract award for the first six (6) units.

Additional requirements may include but not limited to alternatives for bridging capability gaps between the diminishing reliability of the AN/TPS-75 program and the 3DELRR next generation radar's fielding.

The Three-Dimensional Expeditionary Long-Range Radar (3DELRR) Rapid Prototyping is a Middle Tier Acquisition (MTA) program. The MDA for the 3DELRR program is the Assistant Secretary of the Air Force (Acquisition). The Air Force Program Executive Officer (PEO) for Digital Directorate (AFPEO Digital) located at Hanscom AFB, MA is the PEO for 3DELRR. The Air Force Life Cycle Management Center (AFLCMC) located at Wright-Patterson AFB, OH is the contracting authority for the 3DELRR program, as AFLCMC provides contracting, legal, comptroller, programmatic, engineering, test and logistics support.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833060 / 3D Expeditionary Long-Range Radar	Item Number / Title [DODIC]: 3D Expeditionary Long-Range Radar

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	0.000	96.186	-	96.186
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	0.000	96.186	-	96.186
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.000	0.000	96.186	-	96.186

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - 3D Expeditionary Long-Range Radar Cost																		
Recurring Cost																		
Initial Production Units ^(†)	-	-	-	-	-	0.000	-	-	0.000	31.751	2	63.502	-	-	-	31.751	2	63.502
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	63.502	-	-	-	-	-	63.502
Non Recurring Cost																		
Initial Production NRE	-	-	-	-	-	-	-	-	0.000	-	-	18.460	-	-	-	-	-	18.460
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	0.000	-	-	18.460	-	-	-	-	-	18.460
<i>Subtotal: Hardware - 3D Expeditionary Long-Range Radar Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	81.962	-	-	-	-	-	81.962
Support - 3D Expeditionary Long-Range Radar Cost																		
Program Management Administration	-	-	-	-	-	-	-	-	0.000	-	-	11.018	-	-	-	-	-	11.018
Direct Mission Support	-	-	-	-	-	-	-	-	0.000	-	-	3.206	-	-	-	-	-	3.206
<i>Subtotal: Support - 3D Expeditionary Long-Range Radar Cost</i>	-	-	-	-	-	-	-	-	0.000	-	-	14.224	-	-	-	-	-	14.224
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	0.000	-	-	96.186	-	-	-	-	-	96.186

Remarks:
ICS will be required 15 months after contract award for LRIP units.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833060 / 3D Expeditionary Long-Range Radar	Item Number / Title [DODIC]: 3D Expeditionary Long-Range Radar
ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833060 / 3D Expeditionary Long-Range Radar	Item Number / Title [DODIC]: 3D Expeditionary Long-Range Radar
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Initial Production Units		2022	TBD / TBD	TBD	AFLCMC/HB - Battle Management	Apr 2022	Oct 2023	2	31.751	N	Apr 2021	

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 3: Electronics Programs **P-1 Line Item Number / Title:** 833070 / Weather Observation Forecast

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.364	31.447	33.021	32.376	-	32.376	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.364	31.447	33.021	32.376	-	32.376	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.364	31.447	33.021	32.376	-	32.376	-	-	-	-	-	-

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

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

Description:

PE 0305111F WEATHER SERVICE

The Weather Observation Forecast (WOF) procurement line acquires fixed-base and tactical meteorological equipment, ground-based space environment sensing systems, and information systems supporting the 2018 National Defense Strategy's (NDS) three lines of effort. WOF procurement also ensures a dependable environmental observing and sensing network which was identified as one of the key layers in Air Force Futures blueprint for the sensing grid that enables joint all-domain command and control (JADC2). This funding rebuilds readiness for a more lethal and resilient force by procuring and upgrading fixed and tactical equipment for observing and forecasting terrestrial and space environmental impacts in support of global Air Force (AF), Army, Special Operations Forces (SOF), Space Force (USSF), combatant commands, the Intelligence Community (IC), and other government agencies. Funding to procure and upgrade information systems to process, store, analyze, and disseminate decision-grade weather information enables accurate prediction of environmental impacts to optimize mission planning and execution, targeting, weaponizing, and battle damage assessment, while also enhancing the effectiveness and survivability of AF and Army weapon systems, precision munitions, and AF, USSF, and government agency space systems. Alliances are strengthened through weather system technological upgrades to ensure critical interoperability with Department of Defense (DoD), allies, and inter-agency partners in support of joint all-domain combat operations. Funding for WOF also ensures greater performance and affordability through improvements to architecture and system efficiency as well as the retirement of legacy equipment.

WOF activities align under three capability areas: Weather Data Collection, Weather Data Analysis and Dissemination, and Weather Forecasting. This alignment ensures an integrated and systems-oriented approach to program management decisions. Procurement funding for Terrestrial and Space Environment Observation Forecast are addressed by APPN 3080, PE 0305111F, Weather Observation Forecast. For FY 2021, procurement funding and activities aligned under Product Tailoring/Warfighter Applications (PTWA) will be transitioned to the Weather Data Collection capability area to better align data collection efforts. By FY 2023, a portion of the APPN 3080 funding and activities from Weather Data Collection Systems for AF PE 0305111F, Weather Service, will be transferred to the USSF PEs 1205111SF and 1203940SF, Space Situational Awareness Operations, in order to align current AF ground-based space sensing projects to the USSF.

1. Weather Data Collection Systems: Provides automated atmospheric and ground-based space environmental sensing capabilities at fixed and deployed locations worldwide. The data gathered by multiple sensor systems is exploited for environmental battlespace awareness, characterization, safety of flight, resource protection, and satellite anomaly assessments and impacts.

A. Fixed Based Weather Systems (FBWS) - Effective FY 2021, the FMQ-23 Observing System is renamed to FBWS. The FBWS program is responsible for the management of 394 fixed base automated weather sensor systems consisting of commercially available weather sensors across 225 AF and Army bases. FBWS provides the capability to collect weather elements for aviation surface report generation and dissemination. FBWS sensor data is essential for safe and efficient aviation operations of critical DoD assets, and integration into command and control (C2) systems and nodes as part of a joint all-domain

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		P-1 Line Item Number / Title: 833070 / Weather Observation Forecast
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305111F
Line Item MDAP/MAIS Code: N/A		
<p>sensing capability. FBWS program is the consolidated acquisition effort of five fixed base weather system technical baselines and the sensor collection appliances (previously aligned to PTWA under the Joint Environmental Toolkit) in order to create a common sensor baseline and consolidate contract maintenance costs. This program subsumes the FMQ-19, FMQ-22, and FMQ-23 systems. FBWS is not a new start program.</p> <p>B. Ionospheric Ground Sensors (IGS) - IGS capital equipment replacement consists of fielding Next Generation Ionosonde (NEXION), Ionospheric Scintillation Total Electron Count Observer (ISTO), and other similar equipment. IGS contributes to the intelligence, surveillance, and reconnaissance (ISR) environment, permitting full space domain knowledge, which enables Space Domain Awareness (SDA) data integration and exploitation for JADC2 decision-making and tasking. NEXION is a commercial-off-the-shelf (COTS) vertical incidence low-power radar sensor that obtains measurements of the ionosphere from directly overhead in the high-frequency (HF) radio bands (2-30 MHz). ISTO is a world-wide network of ground-based, passive, multi-frequency COTS receivers that measure ionospheric scintillation and total electronic content in real-time by analyzing various satellite signals. FY 2022 is the last year that IGS will reside in the WOF procurement line. In FY 2023, IGS will transition from AF PE 0305111F, Weather Service, to the USSF PE 1203940SF, Space Situational Awareness.</p> <p>C. AN/TMS-2 Portable Doppler Radar (PDR) - PDR is a COTS weather radar that detects weather hazards, to include precipitation and wind threats. The PDR collects and delivers weather data to feed the production of weather warnings, watches, advisories, and other mission-essential weather products to support air and ground operations. PDR sensor data is essential for safe and efficient aviation operations, resource protection of critical DoD assets, and integration into C2 systems and nodes as part of a joint all-domain sensing capability. PDR also provides artificial intelligence/machine learning (AI/ML) algorithm radar training data in austere and data sparse areas for the Global Synthetic Weather Radar (GSWR) capability.</p> <p>D. Next-Generation Radar (NEXRAD) - Tri-agency (National Weather Service, AF, and Federal Aviation Administration) program that manages 159 Doppler weather radars in order to provide networked radar data that is essential for safe and efficient aviation operations, resource protection of critical DoD, government, and commercial assets, and integration into C2 systems and nodes as part of a joint all-domain sensing capability. The AF owns 25 NEXRAD systems worldwide and performs program actions on these systems to include capital equipment replacement of components reaching end of life and a service life extension program which includes pedestal and shelter refurbishments.</p> <p>E. AN/UMQ-13 Meteorological Data Station (MARK IV-B) - MARK IV-B provides warfighters tactical access to timely, accurate data from the latest generation of satellites and sensors to make mission critical decisions affecting the safety of personnel and equipment. MARK IV-B systems receive, process, display, store, and distribute interrogatable meteorological satellite (METSAT) information to operational users worldwide to support warfighter planning and execution via unclassified and classified networks. This system also provides cloud modeling and forecast validation data for the AF Weather Weapon System (AFWWS). FY 2022 is the last year that MARK IV-B will reside in the WOF procurement line. In FY 2023, MARK IV-B will transition from AF PE 0305111F, Weather Service, to the USSF PE 1203940SF, Space Situational Awareness.</p> <p>F. Solar Electro-Optical Network (SEON) - Consists of AN /FMQ-7 Solar Observing Optical Network (SOON) and Radio Solar Telescope Network (RSTN) which includes AN /FRR-95 Radio Interference Measuring Set (RIMS) and A/F24U-10 Solar Radio Spectrograph (SRS). SOON provides optical observance of the sun and RSTN provides Radio Frequency (RF) monitoring of the sun and is an all-weather, ground-based, stand-alone system for the detection of solar bursts. SEON provides 24/7 real-time data of solar activity that interferes with radio frequency bands of satellites, radars, radio communications, and power grids. Moreover, it provides data on solar phenomena that have the potential to damage military surveillance and warning satellites, satellite tracking systems, and affect RF and satellite orbital prediction management. This solar data is also used in the prediction of increases or decreases in solar activity. FY 2022 is the last year that SEON will reside in the WOF procurement line. In FY 2023, SEON will transition from AF PE 0305111F, Weather Service, to the USSF PE 1203940SF, Space Situational Awareness.</p> <p>G. Expeditionary Weather - Effective FY 2021, the Expeditionary Weather (ExMET) is a new start under PE 0305111F, Project 833070, Weather Observation Forecast. ExMET provides a "first-in/on-the-move" weather solution in the tactical and near-peer environments in support of the 2018 NDS. ExMET delivers a scalable, integrated system of components for sensing, forecasting, and communications capabilities aligning to Operation Plans and contingency Unit Type Codes (UTCs) for agile combat employment of weather Airmen and weather operations. ExMET includes tactical sensors to include the TMQ-53, the Micro/Advance-Micro Weather Sensor (MWS/AMWS), a next-gen tactical weather system, as well as solutions for forecast data caching/processing workstations and high-bandwidth communications capabilities.</p> <p>2. Weather Data Analysis and Dissemination: Provides centralized, cybersecure weather web service capability for integration into C2 systems, on-demand availability of weather impacts and products for the joint warfighter on all enclaves, specific mission-tailored weather data for global operations, and weapon system interoperability which shortens the Combatant Commander kill chain through machine to machine</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		P-1 Line Item Number / Title: 833070 / Weather Observation Forecast
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305111F
Line Item MDAP/MAIS Code: N/A		
<p>interfaces. The Weather Data Analysis and Dissemination capability area currently includes activities for Weather Data Analysis Increment 4 (WDA Inc 4), WDA Increment 5 (WDA Inc 5), and WDA capital equipment replacement (CER). In FY 2021, procurement funding for WDA CER is combined under the WDA Inc 4 program of record.</p> <p>A. WDA Inc 4 - Provides an interoperable, flexible, responsive, expandable, and cost effective system with an open architecture allowing resiliency during enterprise weather migration to an AF Weather Virtual Private Cloud (AFW-VPC). Open architecture facilitates an easy "plug-and play" of Government off-the-shelf (GOTS) and COTS cyber-hardened hardware and software products, enabling server consolidation and the transition to cloud computing. WDA Inc 4 will operate on all security environments to ensure interoperability with AF, Army, USSF, IC, other government agency programs, mission partners, and weapon systems. WDA Inc 4 includes the Ingest, Dissemination, and Enterprise Storage (IDES) project which provides for storage and capability to move data between various storage devices in the AF Weather enterprise. Ingest services ensure data providers can present their data to designated storage, and Dissemination Services ensure data consumers have access to storage and the ability to move data to a location specified by the consumer. The IDES IV contract vehicle will be used to retire end of life/end of service legacy equipment.</p> <p>3. Weather Forecasting: Weather Forecasting includes activities for terrestrial and space weather modeling, which provides warfighters with increased global environmental battlespace awareness for use in strategic, operational, and tactical mission planning, rehearsal, and execution through advanced scientific numerical weather prediction capabilities. Provides improvements to specific weather modeling capability gaps.</p> <p>A. Numerical Weather Modeling (NWM) - Provides advanced scientific numerical weather prediction capabilities for automated, high-resolution forecast products for mission planning and execution. Supports technology insertion/scientific improvements to AF weather analysis and forecasting capability with emphasis on clouds, theater-scale weather, and aerosol/chemical constituents.</p> <p>4. Product Tailoring Warfighter Applications (PTWA): Provides timely, local, and regional target-scale weather information to operational commanders within a given area of responsibility and at tactical levels provides front-line weather information to warfighters in support of combat operations. Supports the "train-as-you-fight" concept by assuring fixed and deployable systems have similar performance parameters and user interfaces. In FY 2021, PTWA procurement funding is transitioned to the Weather Data Collection Systems capability area to better align investments with data collection efforts under the FBWS program of record. As of FY 2021, this capability area will only have RDT&E investment funding aligned to it.</p> <p>A. Joint Environmental Toolkit (JET) - Provides a standard AF Weather forecaster toolkit to ingest weather data and deliver timely, tailorable, and precise weather impacts to the warfighter. JET is installed at 8 regional centers, 1 training center, and 154 tactical weather units. In FY 2021, the Sensor Collection Appliance (SCA) portion of JET is subsumed by the FBWS program and the remaining portions of JET are subsumed by the program of record, Weather Applications Rapid Production (WARPspeed), within the PTWA capability area. WARPspeed will include applications, weather software and plug-ins for C2 system integration, and web interfaces that support the joint warfighter. After this program realignment in FY 2021, the PTWA capability area no longer has any APPN 3080 associated with it.</p> <p>Funding for this exhibit is contained in PE 0305111F.</p> <p>Management services costs include Federally Funded Research and Development Centers (FFRDCs) and Advisory and Assistance Services (A&AS).</p> <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>The FY22 funding request was reduced by \$0.884M to account for the availability of prior year execution balances.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 833070 / Weather Observation Forecast
Equip / BSA 3: Electronics Programs

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	FBWS		A		- / -	3 / 1.168	3 / 2.879	- / 3.722	- / -	- / 3.722
P-5	JET		B		- / -	- / 3.774	- / 0.000	- / -	- / -	- / -
P-40a	Weather Data Collection Systems				- / -	- / 10.270	- / 15.103	- / 20.743	- / -	- / 20.743
P-5	WDA Inc-4		B		- / -	- / -	- / 12.175	- / 6.975	- / -	- / 6.975
P-40a	WDA-CER				- / -	- / 14.776	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40a	WOF				- / 27.364	- / 1.459	- / 2.864	- / 0.936	- / 0.000	- / 0.936
P-40	Total Gross/Weapon System Cost				- / 27.364	- / 31.447	- / 33.021	- / 32.376	- / -	- / 32.376

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

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

Justification:

PE 0305111F WEATHER SERVICE

1. Weather Data Collection Systems:

A. FBWS: FY 2022 funding will procure fixed-base weather sensors, sensor collection appliances (SCAs) (prior to FY 2021, SCAs are aligned under the JET program of record within PTWA), and additional sensor components, and communication and dissemination equipment for weather sensing at AF and Army installations, expeditionary airfields, and joint/coalition force locations. These systems and sensors will ensure the continued delivery of observed weather conditions to the warfighter, compliance with cybersecurity requirements, and interoperability with C2 systems. Increase in FY22 funding due to SCA realignment under FBWS.

B. IGS: FY 2022 funding will provide 3 required NEXION site feasibility surveys, as well as procurement, installation and fielding of 2 NEXION sensors and 2 ISTO sensors to support space domain awareness (SDA). Additionally, funding will support opportunities to field state-of-the-art sensors that can improve coverage areas, efficiency, and characterization of ionospheric impacts to DoD and government agency communications. Funding will enable rapid response to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, prototyping, etc. Increase in FY 22 funding due to additional planned ISTO installations.

C. MARK IV-B: FY 2022 funding will provide software architecture maintenance which includes: maintenance of antenna, data feed, software, and hardware architecture vital to maintaining MARK IV-B's ability to communicate with newer, state-of-the-art, multinational satellites. Additionally, funding migrates MARK IV-B to the latest server configurations in order to maintain cybersecurity compliance. New ingest server updates are also scheduled, which will provide the warfighter forecasters (end-users) with updated and additional, relevant weather satellite sensor data. Funding also enables rapid response to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, prototyping, etc.

D. NEXRAD: FY 2022 funding will continue Service Life Extension Program for pedestals and generators. Other capital equipment replacement includes Radar Product Generator communications, Power Administrators, and Global Positioning System units.

E. SEON: FY 2022 funding will be for the continued replacement of antenna pedestals. Replacing the 8 antenna pedestals will eliminate a number of obsolete parts and enable the RIMS and SEON sites to continue to provide critical data for military operations and communications. Funding enables rapid response to implement system resiliency and situational awareness necessary to operate in the contested

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		P-1 Line Item Number / Title: 833070 / Weather Observation Forecast
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305111F
Line Item MDAP/MAIS Code: N/A		
<p>space domain. Activities may include, but are not limited to program office support, studies, technical analysis, prototyping, etc. Decrease in FY22 funding due to a portion of the pedestal antenna replacements being completed in FY21.</p> <p>F. Expeditionary Weather (ExMET): FY 2022 funding will initiate procurement of scalable, tactical weather systems with integrated forecasting and communications capabilities for agile combat operations. System requirements align to Operation Plans and contingency UTCs for deployed weather Airmen and weather operations support to the joint warfighters. Funding enables rapid fielding in response to AF expeditionary operations needs highlighted in the 2018 NDS. Increase in FY22 funds due to increased fielding of ExMET systems.</p> <p>2. Weather Data Analysis and Dissemination:</p> <p>A. WDA Inc 4: FY 2022 funding will refresh internal network equipment, computer hardware, and COTS software to provide net-centric delivery of data to the warfighter across all security enclaves. Funding the refresh of hardware, software, and security components are critical to ensure the uninterrupted capability to ingest, process, store, access, and disseminate meteorological and space weather data to the warfighter and risk management framework compliance. Decrease in FY22 funds due to continued transition of WDA Inc 4 applications and systems to the AF Weather Virtual Private Cloud (AFW-VPC) platform under WDA Increment 5 (Inc 5).</p> <p>3. Weather Forecasting:</p> <p>A. NWM: FY 2022 funding includes, but is not limited to, procurement of additional storage and network communications components for the High Performance Computing (HPC) System 11 at Oak Ridge National Laboratory (ORNL) and continued hardware procurement to support exploitation of new meteorological satellite data sources for NWM. Decrease in FY22 funding due to installation completion of HPC System 11 at ORNL.</p> <p>4. PTWA:</p> <p>A. JET: No funding requested for FY 2022 as the SCA procurement portion of JET has been realigned to FWBS.</p>		

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833070 / Weather Observation Forecast	Item Number / Title [DODIC]: FBWS

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	3	3	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	1.168	2.879	3.722	-	3.722
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	1.168	2.879	3.722	-	3.722
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	1.168	2.879	3.722	-	3.722

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	0.389	0.960	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
FMQ-23	-	-	-	0.250	2	0.500	0.250	3	0.750	-	-	1.244	-	-	-	-	-	1.244
SCA	-	-	-	-	-	-	-	-	1.474	-	-	1.778	-	-	-	-	-	1.778
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.500	-	-	2.224	-	-	3.022	-	-	-	-	-	3.022
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	0.500	-	-	2.224	-	-	3.022	-	-	-	-	-	3.022
Support - Support End Item Cost																		
TESTING FMQ-23	-	-	-	-	-	0.023	-	-	0.046	-	-	0.049	-	-	-	-	-	0.049
DIRECT MISSION SUPPORT CONTRACTOR SERVICES FMQ-23	-	-	-	-	-	0.250	-	-	0.217	-	-	0.232	-	-	-	-	-	0.232
PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES FMQ 23	-	-	-	-	-	0.328	-	-	0.292	-	-	0.312	-	-	-	-	-	0.312
PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENT SERVICES FMQ 23	-	-	-	-	-	0.067	-	-	0.100	-	-	0.107	-	-	-	-	-	0.107
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.668	-	-	0.655	-	-	0.700	-	-	-	-	-	0.700
Gross/Weapon System Cost	-	-	-	0.389	3	1.168	0.960	3	2.879	-	-	3.722	-	-	-	-	-	3.722

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833070 / Weather Observation Forecast	Item Number / Title [DODIC]: FBWS
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Remarks: Note: Actual number of systems procured will be dependent on location and site requirements.		

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833070 / Weather Observation Forecast	Item Number / Title [DODIC]: JET

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	3.774	0.000	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	3.774	0.000	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	3.774	0.000	-	-	-

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - JET Cost																		
Recurring Cost																		
JET EQUIPMENT LIFE CYCLE REPLACEMENT	-	-	-	-	-	3.606	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	3.606	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - JET Cost</i>	-	-	-	-	-	3.606	-	-	0.000	-	-	-	-	-	-	-	-	-
Support - JET Cost																		
PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES JET	-	-	-	-	-	0.074	-	-	0.000	-	-	-	-	-	-	-	-	-
PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENT SERVICES JET	-	-	-	-	-	0.094	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - JET Cost</i>	-	-	-	-	-	0.168	-	-	0.000	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	3.774	-	-	0.000	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																				
IGS	A		-	-	-	0.185	2	0.370	0.060	4	0.240	0.337	4	1.349	-	-	-	0.337	4	1.349
Portable Doppler Radar	A		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
MARK IV-B	A		-	-	-	1.430	1	1.430	1.092	1	1.092	1.360	1	1.360	-	-	-	1.360	1	1.360
NEXRAD	A		-	-	-	-	-	2.210	-	-	2.819	2.294	1	2.294	-	-	-	2.294	1	2.294
SEON	A		-	-	-	3.000	1	3.000	7.077	1	7.077	2.250	1	2.250	-	-	-	2.250	1	2.250
Expeditionary Weather	A		-	-	-	-	-	0.000	-	-	2.427	7.570	1	7.570	-	-	-	7.570	1	7.570
Subtotal: Hardware - Hardware End Item Cost			-	-	-	-	-	7.010	-	-	13.655	-	-	14.823	-	-	-	-	-	14.823
Support - Support End Item Cost																				
INSTALLATION IGS	A		-	-	-	1.630	2	3.260	0.362	4	1.448	1.480	4	5.920	-	-	-	1.480	4	5.920
ASSISTANCE AND ADVISORY SERVICE A&AS	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Support End Item Cost			-	-	-	-	-	3.260	-	-	1.448	-	-	5.920	-	-	-	-	-	5.920
Total			-	-	-	-	-	10.270	-	-	15.103	-	-	20.743	-	-	-	-	-	20.743

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

Remarks:
Expeditionary Weather is a New Start in FY2021.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833070 / Weather Observation Forecast	Item Number / Title [DODIC]: WDA Inc-4

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	12.175	6.975	-	6.975
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	12.175	6.975	-	6.975
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	12.175	6.975	-	6.975

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - WDA Inc-4 Cost																		
Non Recurring Cost																		
Hardware-Weather Service Cost	-	-	-	-	-	-	-	-	12.000	-	-	6.788	-	-	-	-	-	6.788
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	12.000	-	-	6.788	-	-	-	-	-	6.788
<i>Subtotal: Hardware - WDA Inc-4 Cost</i>	-	-	-	-	-	-	-	-	12.000	-	-	6.788	-	-	-	-	-	6.788
Support - WDA Inc-4 Cost																		
PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES	-	-	-	-	-	-	-	-	0.020	-	-	0.021	-	-	-	-	-	0.021
PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENT SERVICES	-	-	-	-	-	-	-	-	0.155	-	-	0.166	-	-	-	-	-	0.166
<i>Subtotal: Support - WDA Inc-4 Cost</i>	-	-	-	-	-	-	-	-	0.175	-	-	0.187	-	-	-	-	-	0.187
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	12.175	-	-	6.975	-	-	-	-	-	6.975

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware																				
Capital Equipment Replacement	A		-	-	-	-	-	14.612	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Hardware			-	-	-	-	-	14.612	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Support																				
Program Management Administration Contractor Services	A		-	-	-	-	-	0.019	-	-	0.000	-	-	-	-	-	-	-	-	-
Program Management Administration Other Government Services	A		-	-	-	-	-	0.145	-	-	0.000	-	-	-	-	-	-	-	-	-
Subtotal: Support			-	-	-	-	-	0.164	-	-	0.000	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	14.776	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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

Remarks:
FY2021 and beyond funding from WDA CER has been re-aligned to WDA Inc 4 to account for required hardware refreshes and to buy down risk inherent in the cloud migration.

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2022 Air Force **Date:** May 2021

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

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
WOF2 / Numerical Weather Modeling (NWM)			-	-	27.364	-	-	1.459	-	-	2.864	-	-	0.936	-	-	-	-	-	0.936
Total			-	-	27.364	-	-	1.459	-	-	2.864	-	-	0.936	-	-	0.000	-	-	0.936

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

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
WOF2 / Numerical Weather Modeling (NWM)	NWM	Capability Improvement

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

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

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0301112F, 0303248F, 0304115F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	5.090	28.407	37.950	-	37.950	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	5.090	28.407	37.950	-	37.950	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	5.090	28.407	37.950	-	37.950	-	-	-	-	-	-

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

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

Description:

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

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

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

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

Emergency Action Messages (EAMs) are highly structured, authenticated messages primarily used in the command and control of nuclear forces. They are disseminated over numerous survivable and non-survivable communication systems including terrestrial and space systems. Programmed funds procure system components, spares, software, and necessary support services for systems such as the Strategic Automated Command and Control System (SACCS), Phoenix Air-to-Ground Communication Network (PAGCN), Defense Injection Reception Emergency Action Message (EAM) C2 Terminals (DIRECT), Aircrew Alerting Communications Electromagnetic Pulse (AACE), the Strategic Emergency Action Transmission System (SEATS), and the Defense Red Switch Network (DRSN).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		P-1 Line Item Number / Title: 833140 / Strategic Command And Control
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0301112F, 0303248F, 0304115F
Line Item MDAP/MAIS Code: N/A		
<p>SACCS is a secure Nuclear Command, Control, and Communications (NC3) system that directly supports National Command Authority (NCA) communications in the command and control of strategic and non-strategic forces. SACCS enables the NCA to disseminate Higher Authority Command Messages, Force Direction Messages, EAMs, and automated ICBM re-targeting data to the USAF's two legs (ICBM and bomber fleets) of the nuclear triad; the reconnaissance, tanker, USAF munitions, and Special Operations communities; and to other Active Duty, Guard, and Reserve DoD users worldwide.</p> <p>DIRECT includes the hardware and software to enable the NCA to transmit nuclear and non-nuclear EAMs and other time-critical messages to strategic and non-strategic forces. The equipment requested is representative of those items capable of providing the required operational capability. The specific items procured may vary depending upon available technology at the time of procurement. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>PAGCN is a critical component of the Senior Leadership Command, Control and Communications System (SLC3S) that extends terrestrial Defense Information Systems Network (DISN) connectivity via an air-to-ground line-of-sight (LoS) communications path to select Airborne and Ground Mobile platforms, and provides an air-to-air LoS communications path between PAGCN-equipped platforms. The FY2018 NDAA directed the transfer of the PAGCN program from the Defense Information Systems Agency (DISA) to the Air Force Program Executive Office for Nuclear Command, Control and Communications (AFPEO NC3); program office transition from DISA to the Air Force completed on 1 Oct 2020. FY21 procurement funding will be used for Low Altitude capability and cyber security requirements. The FY22 procurement funding will be allocated towards the building of three (3) Ground Entry Points (GEP), not including infrastructure.</p> <p>Development funding for this exhibit contained in PE 0101316F.</p> <p>PE 0208059F Service Support to Other Core Missions - CYBERCOM Activities - P-40A US Cyber Command (USCYBERCOM) Cyberspace Situational Awareness (SA) capabilities provides Combatant Commands the ability to detect anomalies within friendly networks, and to link cyber key terrain to cyber and kinetic mission needs and timelines. FY18 is the last year of funding for Cyber SA.</p> <p>PE 0301112F Nuclear Planning and Execution System (NPES) - P-40A NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES): NPES is a National C2 automated information system (AIS) that supports all phases of nuclear conflict. The requirement includes all facets of Cyber investments as it relates NPES Legacy enhancements, test, communication systems and operational server integration with fixed command centers, distributed sites, and mobile platforms. NPES Legacy is a joint program, with the Air Force assigned lead service responsibilities. All NPES funding covers current and future cyber related investments necessary for a successful operational application/system delivery, for fixed command centers, distributive sites and mobile platforms. Funding for this effort is in program element 0301112F.</p> <p>"Funding supports cyber investments for all NPES environment suites, as well as the 4th Generation Servers supporting the mobile platform environments. NPES cyber investments include procurement supporting communications equipment, operational sites, and PMA contractor support for equipment purchases, sustainment activities, and security certifications. These cyber investments will be accomplished by command supported contracts as well as Defense Microelectronics Activity (DMEA) supporting airborne enhancements. Funding for this effort is in program element 0301112F.</p> <p>PE 0303255F Command, Control, Communication, and Computers (C4) - STRATCOM - P-40A SERVICE SUPPORT TO USSTRATCOM - C4:</p> <p>a. USSTRATCOM C2 SYSTEMS LIFECYCLE HARDWARE MANAGEMENT: This effort provides the C2 infrastructure and hardware to acquire, process, and deliver information, as needed, to enhance decision making for USSTRATCOM. This effort employs a set of underlying information services, technologies, and tools that enable the Commander of USSTRATCOM to achieve broad operational warfighting capabilities. The effort adds capability as it builds to a final architecture. The architecture is a collection of distributed databases and applications, integrated through a grid of supporting services. This effort was previously referred to as "C2 Modernization and is NOT a new start.</p> <p>Beginning in FY20 this program will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160, PE 0101301F</p> <p>b. ANALYSIS AND TARGETING - JOINT WARFARE ANALYSIS CENTER (JWAC): effort provides the hardware that enables the JWAC to develop and recommend strategic technical solutions. JWAC coordinates directly with the staffs of all Department of Defense (DoD) elements, Combatant Commands, military services, and other government departments and agencies to respond to crises.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		P-1 Line Item Number / Title: 833140 / Strategic Command And Control
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0301112F, 0303248F, 0304115F
Line Item MDAP/MAIS Code: N/A		
<p>Beginning in FY20 this program will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160F, PE 0101301F</p> <p>c. FORCE SURVIVABILITY, ANALYSIS, AND MANAGEMENT: Provides a decision support system and is designed to provide the commander with Force Management (pre attack) and Force Survival (post attack) information needed to ensure survival of strategic forces. Provides the commander vital decision making data by correlating strategic force status reported by Force Status Reporting (FSR) with missile attack warning information. Processing and Display Subsystem - Migration (PDS-M) will continue to provide the commander with missile attack warning information</p> <p>Beginning in FY20 this program will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160F, PE 0101301F</p> <p>d. GLOBAL DISTRIBUTED COMMAND AND CONTROL (GDC2): Detailed information is classified and will be provided on a need to know basis. For further information please contact the Strategic C2 Systems Branch (SAF/AQID) at (202) 404-3405.</p> <p>e. USSTRATCOM REPLACEMENT FACILITY FIT-OUT: No funding in FY20 and out</p> <p>PE 0101301F - USSTRATCOM Information Technology Enterprise</p> <p>The USSTRATCOM COMMAND AND CONTROL FACILITY (C2F) IT Enterprise will incorporate all facets of the requirements previously reported within PE 0303255F, USSTRATCOM C2 SYSTEMS LIFECYCLE HARDWARE MANAGEMENT (old C2 Modernization), ANALYSIS AND TARGETING, and FORCE SURVIVABILITY, ANALYSIS, AND MANAGEMENT(FSAM). The USSTRATCOM REPLACEMENT FACILITY FIT-OUT program does not have funding in FY20. All programs and systems will now ride on the enterprise infrastructure. The GDC2 program will continue to be reported under PE 0303255F and treated separately.</p> <p>This is not a new start.</p> <p>USSTRATCOM IT Enterprise - This effort provides the Command and Control infrastructure and hardware to acquire, process, and deliver information, as needed, to enhance decision making for USSTRATCOM. USSTRATCOM is tasked with vital roles for our nation. These roles require a secure and survivable infrastructure. This effort employs a set of underlying information services, technologies, and tools to ensure the standard configuration of information technology architecture. The enterprise architecture is a collection of distributed databases and applications, integrated through a cloud-based infrastructure. The facility includes features and capabilities such as secure High-Altitude Electromagnetic Pulse (HEMP) Shielded Command and Control Center, Installation Processing Node, multiple 24/7 mission operations centers, storage and maintenance areas, labs/workrooms, backup generators, Uninterruptible Power Source, and Technical Control Facility.</p> <p>PE 0304115F Joint All Domain Command & Control (JADC2) - P-40A PE 0304115F Multi Domain Command and Control (MDC2), also known as Joint All Domain Command and Control (JADC2) - P-40A</p> <p>Future of warfare requires Joint All-Domain Command and Control (JADC2) powered by the Advanced Battle Management family of Systems (ABMS) and digital modernization. ABMS is the technological underpinning of JADC2 operations and readiness. Through ABMS technology, JADC2 operations moves from a platform-centric approach (trucks) to a network-centric approach (highways) that will connect the right sensor to the right node to the right shooter regardless of domain to achieve rapid, artificial intelligence (AI) enabled decision making and effects. Funding will go towards enabling distributed and disaggregated C2 operations across ABMS product lines to instantiate JADC2 Concept of Operations and Concept of Employment aligned to Combatant Command onramps.</p> <p>Development funding for this exhibit contained in PE 64003F.</p> <p>PE 0303248F, All Domain Common Platform - P-40A</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		P-1 Line Item Number / Title: 833140 / Strategic Command And Control
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0301112F, 0303248F, 0304115F
Line Item MDAP/MAIS Code: N/A		
<p>The ADCP is an extensible cloud-based Infrastructure and Platform as a Service (IaaS/PaaS) hosting platform built to deliver highly resilient command and control (C2) mission applications and data to Airmen deployed around the world. ADCP is a warfighting capability that enables any organization to build, deploy and monitor mission applications to the end state of production. Having applications operational in various environments ensures data is accessible as it is needed across Air Force mission sets.</p> <p>This program is not a new start and is part of the overarching Kessel Run portfolio and this foundational Kessel Run system is the primary path to production for modernized C2 systems. ADCP is in collaboration with all primary customers of the platform and environment to include Air Operations Center, Intelligence Programs, the AF Rapid Capabilities Office, and others. This program is USAF's contributing platform to JADC2 for user-facing C2 capability with the resiliency requirements met through the escalating phases of warfare.</p> <p>Funding for this exhibit is contained in PE 0303248F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 833140 / Strategic Command And Control
Equip / BSA 3: Electronics Programs

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0301112F, 0303248F, 0304115F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	B-2 Squadrons				- / -	- / 0.524	- / 0.532	- / 0.536	- / -	- / 0.536
P-40a	Worldwide Joint Strategic Communications				- / -	- / 0.300	- / 24.520	- / 29.539	- / -	- / 29.539
P-40a	Nuclear Planning and Execution System (NPES)				- / -	- / 2.266	- / 1.356	- / 0.000	- / -	- / 0.000
P-40a	All Domain Common Platform				- / -	- / 0.000	- / 0.000	- / 3.541	- / -	- / 3.541
P-40a	Joint All Domain Command & Control (JADC2)				- / -	- / 2.000	- / 1.999	- / 4.334	- / -	- / 4.334
P-40	Total Gross/Weapon System Cost				- / -	- / 5.090	- / 28.407	- / 37.950	- / -	- / 37.950

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

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

Justification:

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

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

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

DIRECT:
 - FY20 PB funds (0.300M) will be used for DIRECT/NC3 architecture upgrades & support
 - FY21 PB funds (1.979M) will be used for DIRECT/NC3 architecture upgrades & support
 - FY22 PB funds (1.507M) will be used for DIRECT/NC3 architecture upgrades & support

PAGCN:
 - FY21 PB funds (22.574M) will be used for Low Altitude and Cybersecurity efforts to build the PAGCN capability to the level required by the Joint Requirements Oversight Council (JROC)-validated Capability Production Document (CPD). Additional information can be provided at higher classification levels.
 - FY22 PB funds (28.032M) will be allocated towards the installation of three (3) Ground Entry Points (GEP), not including infrastructure.

PE 0208059F Service Support to Other Core Missions - CYBERCOM Activities - P-40A
 PE 0208059F US Cyber Command (USCYBERCOM)ACTIVITIES:

FY18 supports fielding Cyberspace Situational Awareness EOA Phase I to three combatant commands (USSOUTHCOM, USSOCOM, PACOM).

PE 0301112F Nuclear Planning and Execution System (NPES) - P-40A

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		P-1 Line Item Number / Title: 833140 / Strategic Command And Control
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0301112F, 0303248F, 0304115F
Line Item MDAP/MAIS Code: N/A		
<p>NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES): NPES is a National C2 automated information system (AIS) that supports all phases of nuclear conflict. The requirement includes NPES development, test, communication systems and operational server integration with fixed command centers, distributed sites, and mobile platforms. NPES is a joint program, with the Air Force assigned lead service responsibilities. All NPES funding covers the development, test, and operational server suites for fixed command centers, distributive sites and mobile platforms. Funding for this effort is in program element 0301112F.</p> <p>PE 0303255F Command, Control, Communication, and Computers (C4) - STRATCOM - P-40A PE 0303255F SERVICE SUPPORT TO STRATCOM, COMMAND, CONTROL, COMMUNICATION AND COMPUTER (C4)</p> <p>a. USSTRATCOM C2 SYSTEMS LIFECYCLE HARDWARE MANAGEMENT: FY 20 begins transition to the USSTRATCOM IT Enterprise construct</p> <p>b. ANALYSIS AND TARGETING - JOINT WARFARE ANALYSIS CENTER (JWAC): FY 20 begins transition to the USSTRATCOM IT Enterprise construct</p> <p>c. FORCE SURVIVABILITY, ANALYSIS, AND MANAGEMENT (FSAM). FY 20 begins transition to the USSTRATCOM IT Enterprise construct</p> <p>d. GLOBAL DISTRIBUTED COMMAND AND CONTROL (GDC2): Detailed information is classified and will be provided on a need to know basis. For further information please contact the Strategic C2 Systems Branch (SAF/AQID) at (202) 404-3405.</p> <p>e. USSTRATCOM REPLACEMENT FACILITY FIT-OUT: USSTRATCOM Replacement Facility: NO funding in FY20 and out.</p> <p>f. PE 0101301F - USSTRATCOM Information Technology Enterprise...consists of 6 major efforts:</p> <ol style="list-style-type: none"> 1. Installation Process Node Hardware Lifecycle Management - Equipment delivers cloud-based Infrastructure as a Service (IaaS) server core capabilities. Virtual Desktop Infrastructure (VDI) server resource management includes access control and lifecycle management. 2. Computer Network Defense - Security operations will begin lifecycle technical refresh of hardware to enable the monitoring, protection, analysis, and detection of malicious activities affecting USSTRATCOM Enterprise IT architecture and component subscriber enterprises 3. Network/Communications Hardware Updates - FY20 starts equipment updates for network administration and control devices for the USSTRATCOM enterprise networks and Internet control 4. Client Infrastructure Hardware Updates - Lifecycle technical refresh will begin on end user computing input/output devices and peripherals. 5. Audio Visual/Video Tele-Conferencing (VTC) Hardware Updates -Technical refresh of audio visual equipment includes audio visual control room equipment, classified and unclassified telephony, digital signage, VTC and audio conferencing capabilities 6. COOP Capabilities - In FY20 USSTRATCOM will build a continuity of operations capability to host mission critical systems and applications at an off-site location. <p>Specific items procured during execution may change based on commercial availability and critical equipment needed to support current mission requirements.</p> <p>PE 0304115F Joint All Domain Command & Control (JADC2) - P-40A Procurement funds required to enable the enable the production of non-developmental requirements and to proliferate enduring capabilities for ABMS and JADC2. Specifically, funds will support procurement of components, parts, materials or end items to support JADC2 activities focused on distributed and disaggregated C2 operations. Funding supports, but is not limited to, various interdependent JADC2 activities: requirements/outputs of the Advanced Battle Management System (ABMS) 4 month Onramp demos or independent developments, procurement for the Shadow Operations Center</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		P-1 Line Item Number / Title: 833140 / Strategic Command And Control
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0301112F, 0303248F, 0304115F
Line Item MDAP/MAIS Code: N/A		
<p>PE 0303248F, All Domain Common Platform (ADCP) - P-40A</p> <p>This is not a new start. The cloud hosting platform efforts were transferred from PE 0207410F, Air & Space Operations Center (AOC), Line Item WSC 834530, AOC, in order to support enterprise level activities.</p> <p>ADCP: FY22 procurement funding will be used to conduct Capital Equipment Replacement of ADCP on-premises hardware suites to support its heightened security posture. It will also be used to procure hardware and bench stock to assist in the care and upkeep of the hardware suites and network components at each location where on-premises hardware is operational.</p>		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 **P-1 Line Item Number / Title:** 833140 / Strategic Command And Control **Aggregated Items Title:** B-2 Squadrons

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
B-2 Weapon System Support Center (WSSC) Hardware	A		-	-	-	0.524	1	0.524	0.532	1	0.532	-	-	0.536	-	-	-	-	-	0.536
Subtotal: Uncategorized			-	-	-	-	-	0.524	-	-	0.532	-	-	0.536	-	-	-	-	-	0.536
Total			-	-	-	-	-	0.524	-	-	0.532	-	-	0.536	-	-	-	-	-	0.536

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3						P-1 Line Item Number / Title: 833140 / Strategic Command And Control						Aggregated Items Title: Worldwide Joint Strategic Communications							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Defense Injection/ Reception Emergency Action Message Command and Control Terminal (DIRECT) System	A		-	-	-	-	-	0.300	-	-	1.946	-	-	1.507	-	-	-	-	-	1.507
Strategic Automated Command Control Systems (SACCS)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phoenix Air-to-Ground Communication Network (PAGCN)	A		-	-	-	-	-	-	-	22.574	-	-	28.032	-	-	-	-	-	-	28.032
Subtotal: Uncategorized			-	-	-	-	-	0.300	-	-	24.520	-	-	29.539	-	-	-	-	-	29.539
Total			-	-	-	-	-	0.300	-	-	24.520	-	-	29.539	-	-	-	-	-	29.539

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

Remarks:

DIRECT:

- FY20 PB funds (0.300M) will be used for DIRECT/NC3 architecture upgrades & support
- FY21 PB funds (1.979M) will be used for DIRECT/NC3 architecture upgrades & support
- FY22 PB funds (1.507M) will be used for DIRECT/NC3 architecture upgrades & support

PAGCN:

- FY21 PB funds (22.574M) will be used for Low Altitude and Cybersecurity efforts to build the PAGCN capability to the level required by the Joint Requirements Oversight Council (JROC)-validated Capability Production Document (CPD). Additional information can be provided at higher classification levels.
- FY22 PB funds (28.032M) will be allocated towards the installation of three (3) Ground Entry Points (GEP), not including infrastructure.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833140 / Strategic Command And Control	Aggregated Items Title: Nuclear Planning and Execution System (NPES)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Nuclear Planning and Execution System (PE 31112)																				
Operational Sites Life Cycle Replacement – Turn-Key Systems (Linux/Windows Servers, Storage, Cli...	A		-	-	-	1.896	1	1.896	-	-	-	-	-	-	-	-	-	-	-	-
DEV-System Life Cycle Replacement (Servers, Storage, Switches, Clients, etc)	A		-	-	-	0.185	2	0.370	-	-	-	-	-	-	-	-	-	-	-	-
Communication Life Cycle Replacement – Turn-Key Systems (Servers, Storage, Clients, etc.)	A		-	-	-	-	-	-	0.271	5	1.356	-	-	-	-	-	-	-	-	-
Subtotal: Nuclear Planning and Execution System (PE 31112)			-	-	-	-	-	2.266	-	-	1.356	-	-	-	-	-	-	-	-	-
Program Management Administration																				
Systems Operations	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Program Management Administration			-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	2.266	-	-	1.356	-	-	0.000	-	-	-	-	-	0.000

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833140 / Strategic Command And Control	Aggregated Items Title: All Domain Common Platform
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AF C2 Common Platform																				
Capital Equipment Replacement	A		-	-	-	-	-	0.000	-	-	0.000	-	-	3.541	-	-	-	-	-	3.541
Subtotal: AF C2 Common Platform			-	-	-	-	-	0.000	-	-	0.000	-	-	3.541	-	-	-	-	-	3.541
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	3.541	-	-	-	-	-	3.541

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

Remarks:

The number of geographic sites that ADCP hardware will be fielded to each year will change, so total costs will fluctuate between fiscal years.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3						P-1 Line Item Number / Title: 833140 / Strategic Command And Control						Aggregated Items Title: Joint All Domain Command & Control (JADC2)							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
JADC2 Procurement																				
Component and End Items	A		-	-	-	-	-	2.000	-	-	1.999	-	-	4.334	-	-	-	-	-	4.334
Subtotal: JADC2 Procurement			-	-	-	-	-	2.000	-	-	1.999	-	-	4.334	-	-	-	-	-	4.334
Total			-	-	-	-	-	2.000	-	-	1.999	-	-	4.334	-	-	-	-	-	4.334

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

Remarks:

Funds will support procurement of components, parts, materials and/or end items and installation services to support JADC2 activities. Funding supports, but is not limited to, various interdependent JADC2 activities: requirements/outputs of the Advanced Battle Management system (ABMS) 4 month Onramps or independent developments, procurement for the Shadow Operations Center at Nellis, AFB, and Sensing Grid requirements. The 7.598M will primarily focus on Test instrumentation of the Battle Lab. Allow for the testing of software and hardware through a test tech stack comprised of hardware and software components commensurate with ABMS product line development (see PE 64003F for RDT&E activities), which will provide a Sandbox Software Environment, as well as necessary racks and Servers.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs **P-1 Line Item Number / Title:** 833160 / Cheyenne Mountain Complex

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0305903F, 1203906F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	20.367	10.145	8.199	8.258	-	8.258	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	20.367	10.145	8.199	8.258	-	8.258	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	20.367	10.145	8.199	8.258	-	8.258	-	-	-	-	-	-

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

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

Description:

Cheyenne Mountain Complex (CMC) systems provide real-time ballistic missile warning, air defense, force management, battle management and command, control and communications for the North American Air Defense (NORAD) missions.

PE 0305903F - COCOM MOBILE CONSOLIDATED COMMAND CENTERS (MCCC)

Modification for the COMBATANT COMMANDER (CCDR), MOBILE CONSOLIDATED COMMAND CENTER (MCCC): The CCDR's MCCC provides command capabilities to accomplish directed missions in the event of a national level emergency. It provides resilient command, control, communications, computers, and intelligence (C4I) capability accomplishing directed COCOM missions. The MCCC provides C4I for Homeland Support/Homeland Defense (HLS/HLD) and U.S. Northern Command (USNORTHCOM).

MCCC Block 05 will execute MCCC Block 05 modifications which include but are not limited to: 1) Communication system upgrades; 2) Mission and support asset upgrades; 3) Cyber security modernization, 4) Network upgrades; and 5) Environmental and Filtration system upgrades along with and including initial spares and test facility updates required by the fielding of these modification.

PE 1203906F - NCMC - ITW/AA SYSTEM

In FY 2022, P-1 Line Item 833160 / Cheyenne Mountain Complex PE 123906F efforts were transferred to Appropriation 3022F, Procurement, Space Force, P-1 Line Item SPCMOD / Space Mods, PE 123906SF Cheyenne Mountain Complex, from Appropriation 3080F due to the creation of a new Appropriation for Space Force. Modification for NORAD CHEYENNE MOUNTAIN COMPLEX-INTEGRATED TACTICAL WARNING/ATTACK ASSESSMENT(NCMC-ITW/AA) SYSTEMS: These systems integrate and correlate missile launch, space object orbit, and air surveillance information to assess the nature of an enemy attack and issue warnings to the President of the United States, the Prime Minister of Canada, United States Secretary of Defense and warfighting Combatant Commanders (CCDR). Funding procures replacement for reliability and maintainability of the information systems hardware and associated systems software for Cheyenne Mountain operating locations to include legacy space defense systems at Vandenberg AFB, CA and remote interfacing sites essential for executing US Strategic Command, NORAD, Joint Force Component Commander (JFCC) space missions exercised in the Cheyenne Mountain Complex (CMC), Combined Space Program Operations Center (CSpOC), and forward operating locations.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 833160 / Cheyenne Mountain Complex Equip / BSA 3: Electronics Programs

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0305903F, 1203906F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	COCOM Mobile Command and Control Centers (MCCCs)				- / 17.848	- / 8.066	- / 8.199	- / 0.200	- / 0.000	- / 0.200
P-3a	007 / Mobile Consolidated Command Center Upgrade Block 05 (Reliability & Maintainability)		B		- / -	- / -	- / -	- / 8.058	- / 0.000	- / 8.058
P-40a	NCMC - TW/AA System				- / 2.519	- / 2.079	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 20.367	- / 10.145	- / 8.199	- / 8.258	- / -	- / 8.258

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

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

Justification:

This program, PE 0305903F, P-3A Mod 007, Mobile Consolidated Command Center Upgrade Block 05, is a new start.

PE 0305903F - COCOM MOBILE CONSOLIDATED COMMAND CENTERS (MCCC)

The CCDR's MCCC provides a resilient command, control, communications, computers, intelligence (C4I), reliability and maintainability capability while accomplishing directed COCOM missions. The MCCC provides C4I for Homeland Security Support/Homeland Defense (HLS/HLD) and USNORTHCOM missions. MCCC modification efforts funded in this line include upgrading MCCC shelters and incorporating additional C4I system capabilities via mobile Information Technology and Communication Upgrade projects; ensuring the platform's ability to rapidly deploy, re-constitute and operate. MCCC Block 05 will span three fiscal years. FY22 will execute MCCC Block 05 modifications which include but are not limited to: 1) Communication system upgrades; 2) Mission and support asset upgrades; 3) Cyber security modernization, 4) Network upgrades; and 5) Environmental and Filtration system upgrades along with and including initial spares and test facility updates required by the fielding of these modification. Due to the limited spares demand rate, and indefinite system lifespan, Life of Type buys may be required to support weapons system modifications across the active MCCC Block Programs. FY22 funding will also provide Program Management Administration (PMA) support for the MCCC Block 04 Program initiated in FY21. PMA includes acquisition support/strategy, engineering and technical expertise associated with procurement, support services, test, travel and other program related costs associated with install of procurement equipment. Funding for this effort is in program element 0305903F and is funded IAW full funding policy.

PE 1203906F - NCMC - ITW/AA SYSTEM

FY 2022 funding for NCMC is requested under P-1 Line Item SPCMOD / Space Mods, PE 123906SF Cheyenne Mountain Complex (3022) due to the creation of a new Appropriation for Space Force.

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2022 Air Force														Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3						P-1 Line Item Number / Title: 833160 / Cheyenne Mountain Complex						Aggregated Modification Items Title: COCOM Mobile Command and Control Centers (MCCCs)							

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
003 / Mobile Consolidated Command Center Upgrade Block 01			-	-	8.285	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
004 / Mobile Consolidated Command Center Upgrade Block 02			-	-	9.563	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	-
005 / Mobile Consolidated Command Center Upgrade Block 03			-	-	-	-	-	7.866	-	-	0.200	-	-	-	-	-	-	-	-	-
006 / MCCC Upgrade Block 04			-	-	-	-	-	-	-	-	7.999	-	-	0.200	-	-	-	-	-	0.200
Total			-	-	17.848	-	-	8.066	-	-	8.199	-	-	0.200	-	-	0.000	-	-	0.200

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

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
003 / Mobile Consolidated Command Center Upgrade Block 01	CheyenneMountainComplex	Reliability & Maintainability
004 / Mobile Consolidated Command Center Upgrade Block 02	CheyenneMounatinComplex	Reliability & Maintainability
005 / Mobile Consolidated Command Center Upgrade Block 03	CheyenneMountainComplex	Reliability & Maintainability
006 / MCCC Upgrade Block 04	CheyenneMountainComplex	Reliability & Maintainability

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833160 / Cheyenne Mountain Complex	Modification Number / Title: 007 / Mobile Consolidated Command Center Upgrade Block 05

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	8.058	0.000	8.058
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	8.058	0.000	8.058
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	8.058	0.000	8.058

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

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

Description:

This program, PE 0305903F, P-3A Mod 007, Mobile Consolidated Command Center Upgrade Block 05, is a new start. COMBATANT COMMANDER (COCOM) MOBILE CONSOLIDATED COMMAND CENTER (MCCC):

The COCOM's MCCC provides a resilient command, control, communications, computers, intelligence (C4I), reliability and maintainability capability while accomplishing directed COCOM missions. The MCCC provides C4I for Homeland Security Support/Homeland Defense (HLS/HLD) and USNORTHCOM missions. MCCC modification efforts funded in this line include upgrading MCCC shelters and incorporating additional C4I systems capabilities via mobile Information Technology and Communication Upgrade projects; ensuring the platform's ability to rapidly deploy, re-constitute and operate. In FY22, this line will fund the MCCC Block 05 modifications. MCCC Block 05 modifications include but are not limited to: 1) Communication system upgrades; 2) Mission and support asset upgrades; 3) Cyber security modernization; 4) Network upgrades; 5) Environmental and Filtration system upgrades along with and including initial spares and test facility updates required by the fielding of these modifications. Due to the limited spares demand rate and indefinite system lifespan, Life of Type buys may be required to support weapon system modifications across the active MCCC Block Programs. Additionally, FY22 will fund Program Management Administration (PMA) support for the MCCC Block 04 Program initiated in FY21. FY22 will fund PMA support for the MCCC Block 05 program initiated with FY22. PMA costs fund acquisition support strategy as well as engineering and technical expertise associated with procurement activities. In addition, PMA costs will also support equipment test, travel, and other program related costs associated with install of procurement equipment. Funding for this effort is in Program Element 0305903F and is funded IAW funding policy.

Milestone/Development Status

Sustainment

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833160 / Cheyenne Mountain Complex	Modification Number / Title: 007 / Mobile Consolidated Command Center Upgrade Block 05

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: CheyenneMountainComplex	Modification Type: Reliability & Maintainability	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement						
<i>Modification Item 1 of 1:</i> MCCC (6)						
B Kits						
Recurring						
MCCC:EQUIPMENT Group B (Active)	- / -	- / -	- / -	1 / 5.266	- / -	1 / 5.266
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 5.266	- / -	- / 5.266
<i>Subtotal: MCCC (6)</i>	- / -	- / -	- / -	- / 5.266	- / -	- / 5.266
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 5.266	- / -	- / 5.266
Support (All Modification Items)						
PMA - Contractor Services	- / -	- / -	- / -	- / 1.037	- / -	- / 1.037
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 1.037	- / -	- / 1.037
Installation						
<i>Modification Item 1 of 1:</i> MCCC (6)	- / -	- / -	- / -	1 / 1.755	- / -	1 / 1.755
<i>Subtotal: Installation</i>	- / -	- / -	- / -	1 / 1.755	- / -	1 / 1.755
Total						
Total Cost (Procurement + Support + Installation)	-	-	-	8.058	0.000	8.058

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833160 / Cheyenne Mountain Complex	Modification Number / Title: 007 / Mobile Consolidated Command Center Upgrade Block 05

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: MCCC (6)

Manufacturer Information

Manufacturer Name: CACI, Inc.	Manufacturer Location: Albuquerque, NM
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 8

Dates	FY 2020	FY 2021	FY 2022
Contract Dates			Jan 2022
Delivery Dates			Sep 2022

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	1 / 1.755	- / -	1 / 1.755
Total	- / -	- / -	- / -	1 / 1.755	- / -	1 / 1.755

Installation Schedule

	PYS	FY 2020				FY 2021				FY 2022				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
In	0	-	-	-	-	-	-	-	-	-	-	-	1	-
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	1

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3	P-1 Line Item Number / Title: 833160 / Cheyenne Mountain Complex	Aggregated Modification Items Title: NCMC - TW/AA System
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Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
NCMCB1 / NORAD Cheyenne Mountain Complex Block 01			-	-	2.019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCMCB2 / NORAD Cheyenne Mountain Complex Block 02			-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCMCB3 / NORAD Cheyenne Mountain Complex Block 03			-	-	0.000	-	-	2.079	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	2.519	-	-	2.079	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
NCMCB1 / NORAD Cheyenne Mountain Complex Block 01	NORADCheyenneMountainComplex	Reliability & Maintainability
NCMCB2 / NORAD Cheyenne Mountain Complex Block 02	NORADCheyenneMountainComplex	Reliability & Maintainability
NCMCB3 / NORAD Cheyenne Mountain Complex Block 03	NORADCheyenneMountainComplex	Reliability & Maintainability

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs **P-1 Line Item Number / Title:** 833170 / Mission Planning Systems

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0208006F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	14.508	15.132	14.717	-	14.717	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	14.508	15.132	14.717	-	14.717	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	14.508	15.132	14.717	-	14.717	-	-	-	-	-	-

(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 Mission Planning Systems (MPS) Hardware program procures commercial-off-the-shelf (COTS) computing systems hardware and hardware-related requirements for Air Force active duty, Guard, and Reserve units worldwide. These computing systems provide a flexible, configurable and cost-effective range of increasing capability to meet the continuum of peacetime, contingency and wartime planning requirements. These electronic systems provide a mission data management system that efficiently interfaces with other planning systems as well as aircraft avionics. These computing systems are procured on a four-year life cycle replacement to effectively address and/or alleviate Diminishing Manufacturing Sources (DMS) issues. Once procured the systems are centrally managed for all applicable AF platforms and their operational users, including Guard and Reserve Forces.

The program continues the procurement of COTS computing hardware and other devices associated with the Mission Planning Systems program. It also continues the procurement of all capital replacement hardware used in conjunction with MPS and other pre-, post-, and in-flight mission planning software. Together this hardware and associated software enables aircrews and other planners to plan the safest, most effective operational missions in a timely manner.

The program procures COTS based Personal Computing (PC) Systems to include (but are not limited to) desktop computers, laptops, personal digital assistants (PDA), tablet PCs, color printers, storage devices, servers, displays, other peripherals, software and software licenses, and other support services, that together, allow the user to produce the necessary charts and other mission-specific products required to effectively perform a variety of military missions.

A variety of information technology, navigation and communications hardware and software packages will also be procured each year to meet the varied needs of mission planning platforms and training units. This PC-based capability, when integrated with corresponding mission planning software releases, provides a portable, tailorable, net-centric system for aircrews to complete the mission planning function. The procured items also enable aircrews to effectively utilize software that has been modified to stay in sync with new capabilities incorporated into select platforms via their Operational Flight Program (OFP) update process. They also provide a mission planning capability for precision/autonomous guided munitions and can also be networked with other Theater Battle Management (TBM) systems to further tailor a platform's mission planning environment.

The MPS procurement strategy leverages the rapid increase in PC-based technology to enable high-end computing on increasingly smaller and more mission-oriented devices. The programs procure PC-based systems that provide flexible, configurable, and cost effective solutions that increase tactical and strategic capabilities to meet the continuum of operations ranging from peacetime contingencies to conventional and nuclear wartime mission planning requirements. Each segment of the program has shifted its hardware emphasis from a limited number of large, complex planning systems to more compact and personal planning devices that can be tailored to satisfy user needs. This adjustment is a practical and efficient way to meet technology-driven challenges such as the evolutionary nature of mission planning

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		P-1 Line Item Number / Title: 833170 / Mission Planning Systems
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0208006F
Line Item MDAP/MAIS Code: N/A		
<p>(that necessitates recurrent hardware changes to meet overall system requirements) and advances in COTS technology that makes available new capabilities (which may lower component costs or address component/interface obsolescence). It is also a more effective way to address changes in the number, type, and deployment of aircraft/weapons that force changes in the number of PC-based mission planning computers and their concept of operations.</p> <p>1. MISSION PLANNING SYSTEMS (MPS) HARDWARE: This acquisition is a continuation of procurement efforts to provide MPS-related hardware for Air Force platforms. The program will provide a suite of COTS-based mission planning hardware and software systems that can be connected to data transfer device systems from USAF aircraft (e.g. F-22, B-1, F-16, F-15, RC/OC-135, E-3, E-4, E-8, C-130, HC-130, EC-130, HH-60, KC-135, KC-46, C-5, KC-10, C-17, A-10, F-35, RQ-4, U-2, B-52, B-2, UH-1, T-38, T-7A) and the support of USAF training requirements. MPS allows aircrews to electronically receive tasking orders, intelligence information, target coordinates, imagery and other information from USAF Command, Control, Communications, Computers, and Intelligence (C4I) systems. This information is then used to organize and prepare flight (including equipment and personnel airdrop) and weapons delivery planning data (e.g., maps, charts, imagery, flight logs, radar predications, and navigation databases) that is electronically transferred to aircraft and/or precision-guided weapons. MPS increases the combat effectiveness of Air Force aerial assets (including unmanned air vehicles, conventional and low-observable aircraft, and weapons) and Army guided delivery systems by supporting the use of sophisticated avionics and precision/autonomous guided munitions. It helps to increase wartime sortie rates while improving aircrew and aircraft survivability and aircrew readiness.</p> <p>2. PRECISION AERIAL DELIVERY SYSTEM (PADS): PADS provides the capability for direct delivery of cargo and equipment through high altitude and low, precision airdrops (principally with C-17 and C-130 aircraft). Currently it consists of the Joint Precision Airdrop System (JPADS) acquisition effort. JPADS is a collaborative effort with the Army, USMC, and other agencies to provide aviators the ability to accurately airdrop payloads (including supplies/equipment and personnel) to units in the field from altitudes beyond the reach of some surface-to-air weaponry. This portion of the program procures COTS-based computing hardware, support services and aerial delivery systems to enable completion of pre and in-flight mission planning functions as well as aerial delivery proficiency training in and with operational units.</p> <p>Market surveys and analysis of COTS products will be used to support procurement decisions. This funding request will continue to support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.</p> <p>As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is 14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.</p> <p>This program element may include necessary civilian pay expenses required to manage, execute, and deliver Mission Planning Systems capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F.</p> <p>Funding for this effort is in program element 0208006F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

P-1 Line Item Number / Title:
833170 / Mission Planning Systems

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0208006F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Mission Planning Systems				- / -	- / 14.508	- / 15.132	- / 14.717	- / -	- / 14.717
P-40	Total Gross/Weapon System Cost				- / -	- / 14.508	- / 15.132	- / 14.717	- / -	- / 14.717

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

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

Justification:
FY22 funding will continue procurement of a variety of computers, software, and electronic equipment to support pre-, post-, and in-flight mission planning tasks for a number of Air Force platforms. Procured hardware and other items will support and enable completion of mission planning efforts using legacy planning tools (e.g. Portable Flight Planning Software (PFPS)) as well as the Joint Mission Planning Systems (JMPS). As part of MPS Modernization, the Mission Planning program is updating the current JMPS architecture with an Open Mission Systems architecture to improve system extensibility, expand the suite of services to meet operational requirements for the warfighter, improve the user interface and overall user experience, improve system performance, and address security vulnerabilities and cybersecurity mandates. The hardware will also accommodate planning system updates based upon new capability incorporation via individual platform Operational Flight Programs (OFPs). All items where appropriate are centrally managed and distributed by the Mission Planning System Support Facility and the Defense Logistics Agency. The following kinds of equipment and mission areas will be supported:

- MPS HARDWARE:** FY22 funding will continue procurement of COTS-based hardware, software, and support services to include (but is not limited to) desktop computers, laptops, tablet PCs, data storage devices, servers, PDAs, monitors, software applications, warranties, and other electronic computing components. These assets provide a portable, tailorable, network-capable system that can be integrated with MPS software to provide basic mission planning capability and data interoperability with C4I systems. Components can also be networked with additional tailoring to a platform's mission planning environment. The program will procure hardware and software items, warranties, other services, and up to a 15% contingency inventory (based on the overall number of items being procured) for the following mission planning operational users:

 Air Combat Command (ACC): F-15, F-16,F-22,F-35, A-10, E-3, E-4, E-8,RC/OC-135, HH-60, HC-130, EC-130, U-2, RQ-4

 Air Mobility Command : C-5, C-17, C-130, KC-10, KC-135, KC-46

 Air Force Global Strike Command (AFGSC): B-2, B-52, B-1, UH-1

 Air Education and Training Command (AETC): T-38, T-7A, T-1, T-6
- PRECISION AERIAL DELIVERY SYSTEMS (PADS):** FY22 funding will continue the procurement of Joint Precision Airdrop Systems (JPADS) hardware, software, Line Replaceable Unit (LRU) support equipment for functional checkout (i.e. Automatic Test Equipment or ATE) and other related items. Components include, but are not limited to: guided delivery vehicles (e.g. ultralight, 2K, 10K); Pressure Tolerant Disk Drives (PTDD) [including solid state and pressure sealed disk drives]; precision-guided airdrop training systems; portable data storage units, engineering/technical support, equipment storage and associated hardware warranties. Funding for this effort is in program element 0208006F.
- PROGRAM MANAGEMENT ADMINISTRATION:** FY22 funding provides program office, engineering, and other contractor support for the Mission Planning Systems (MPS) and Joint Precision Airdrop Systems (JPADS) procurement program. Items 1b and 2i,2j in aggregated items table.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 **P-1 Line Item Number / Title:** 833170 / Mission Planning Systems **Aggregated Items Title:** Mission Planning Systems

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
1. Mission Planning Systems (MPS)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
a. MPS Hardware	A		-	-	-	-	-	9.712	-	-	9.719	-	-	9.556	-	-	-	-	9.556	
2. PADS Dropsondes	A		-	-	-	-	-	-	0.080	35	2.800	0.080	32	2.560	-	-	-	0.080	32	2.560
a. PADS Support Services & Spares	A		-	-	-	-	-	-	-	-	0.207	0.193	1	0.193	-	-	-	0.193	1	0.193
b. PADS System Engineering & Logistical Support	A		-	-	-	-	-	0.493	-	-	0.503	0.505	1	0.505	-	-	-	0.505	1	0.505
c. PADS Testing	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d. PADS Delivery Systems	A		-	-	-	0.016	273	4.303	0.013	148	1.903	0.013	148	1.903	-	-	-	0.013	148	1.903
Subtotal: Uncategorized			-	-	-	-	-	14.508	-	-	15.132	-	-	14.717	-	-	-	-	-	14.717
Total			-	-	-	-	-	14.508	-	-	15.132	-	-	14.717	-	-	-	-	-	14.717

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

Remarks:

Unit costs vary because different types/configurations of equipment are being procured.

Mission Planning Systems (MPS) and Precision Aerial Delivery Systems (PADS) components are procured as commercial-of-the-shelf (COTS) equipment using various contracting methods, vehicles and agencies. Items are procured annually via Delivery Orders (DOs) on a variety of contract vehicles (e.g. Blanket Purchase Agreements (BPAs), Indefinite Delivery Indefinite Quantity (IDIQ) contracts, and GSA and NASA SEWP IV Contract schedules) and through agencies such as AFWAY/NETCENTS II (Gunter AFB).

Mission Planning Systems (MPS) hardware assets are centrally managed by the Mission Planning System Support Facility (MPSSF) and the Defense Logistics Agency (DLA) at Hill AFB.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

P-1 Line Item Number / Title:
833560 / Integrated Strat Plan & Analy Network (ISPAN)

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	2.336	9.806	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	2.336	9.806	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	2.336	9.806	0.000	-	0.000	-	-	-	-	-	-

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

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

Description:

INTEGRATED STRATEGIC PLANNING AND ANALYSIS NETWORK (ISPAN): The mission of USSTRATCOM is to conduct global operations in coordination with other Combatant Commands, Services, and appropriate U.S. Government agencies to deter and detect strategic attacks against the U.S. and its allies. It provides full-spectrum global strike, and coordinated space, missile defense, and information operations capabilities to meet both deterrent and decisive national security objectives. USSTRATCOM will also provide operational space support, integrated missile defense, global command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR), and specialized planning expertise to the joint warfighter. ISPAN enables USSTRATCOM to carry out these missions. It is one of DoD's most complex classified computer systems and the only national force level planning system.

ISPAN enables an effects-based approach to planning and operations; cross domain information sharing; and serves multiple planning environments. It develops, verifies, and produces Operational Plan (OPLAN) 8010. It also supports the USSTRATCOM family of plans construct and current Concept of Operations. The system performs tasks ranging from creating and running Courses of Action (COAs) on threat scenarios to providing data for developing bomber aircraft crew strike mission data in digital and hard copy formats. It includes automated data processing equipment (ADPE), multiple networks, unique processes and procedures, software, training, associated deployable and distributed data processing nodes, a test/development environment, and subsidiary systems. The system will migrate to the new USSTRATCOM Command and Control Facility.

The ISPAN program is comprised of two independent but complementary planning systems; the Mission Planning and Analysis System (MPAS) and the Global Adaptive Planning Collaborative Information Environment (GAP-CIE). MPAS is an automated information system to support Global Strike nuclear and conventional target development and weaponing. MPAS includes Mission Planning, Analysis, and Decision Support tools and an Enterprise Database to sustain and support nuclear and conventional strategic war planning. GAP-CIE provides web-enabled adaptive planning, rapid distributed Course of Action (COA) development and global situational awareness supporting both contingency and crisis planners.

ISPAN uses a four-year life-cycle replacement plan for Cyber Investments to procure required Commercial Off-The-Shelf (COTS) hardware (e.g. servers, storage devices, workstations, peripherals and other network components). In some instances the hardware must be combined with commercially available software to form unique planning environments. The program's life cycle replacement plan for hardware Cyber Investments follows industry standards and is used to eliminate the peaks and valleys associated with maintaining compatibility with the fast moving COTS hardware technology improvement cycle. It also allows the program to better utilize existing manpower to install and configure the hardware systems to provide an incremental and efficient replacement of critical infrastructure components as they become obsolete. Hardware and software Cyber Investments procured within the program are used to support all ISPAN program increments.

Funding for this exhibit is contained in Program Element 0101313F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs		P-1 Line Item Number / Title: 833560 / Integrated Strat Plan & Analy Network (ISPAN)
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

Justification:
FY22 funding continues the life-cycle procurement of commercial-based hardware and software Cyber Investments for the ISPAN mission system which consists of the Mission Planning and Analysis System (MPAS) and the Global Adaptive Planning Collaborative Information Environment (GAP CIE) efforts. Funding procures mission system Cyber Investments in the form of infrastructure, architecture, and related support components. Funding also provides a secure cross-domain security solution capability to enable automated data transfers between multi-level networks supporting planners worldwide on multiple enclaves. It allows for the procurement of Cyber Investment items such as (but are not limited to) application servers, switches, storage area network (SAN), backup and recovery systems, guard solution software and other articles that will provide a secure Cross Domain Security Solution (CDSS) capability. Funding also provides for procurement of virtualization technology environments and distributed operations capabilities to support joint warfighters across geographically separated locations. Finally, funding provides Cyber Investments for the initial migration of the ISPAN mission system to the new USSTRATCOM Command and Control Facility.

No Budget Year FY22 funds requested.

NOTE: Hardware procured primarily as Commercial Off the Shelf (COTS) items in varying quantities, in multiple configurations, from multiple sources, using multiple contract vehicles.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834010 / General Information Technology

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F

Line Item MDAP/MAIS Code: CAMI

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	36.525	41.800	43.917	-	43.917	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	36.525	41.800	43.917	-	43.917	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	36.525	41.800	43.917	-	43.917	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY21 funding totals include \$5.100M appropriated for Overseas Contingency Operations.
 FY22 funding totals include \$4.739M requested for Direct War and/or Enduring Requirements.

The FY22 funding request was reduced by \$3.318M to account for the availability of prior year execution balances.

PE 0201130F US Northern Command Communications - P-40A

a. NORAD AND USNORTHCOM INTEROPERABLE COMMUNICATIONS: This includes mission specific communications enhancements to support extension of Public Switched Telephone Network (PSTN), Commercial Internet and Cellular-Wireless/First Responder Network 4G LTE to Civil Authorities from the DoD Satellite Teleports either directly to the Civil Authorities' communications systems or through DoD communications systems. This program combines the Interoperable Communications and Joint Tactical Radio System (JTRS) compliant radio handsets to enable the Defense Support of Civil Authorities mission.

b. DEPLOYABLE COMMUNICATIONS CAPABILITIES SYSTEM LIFE CYCLE MANAGEMENT: The USNORTHCOM Deployable Communications Fleet consists of Emergency Response Vehicles (ERV) Mobile Command Platforms (MCP), Rapid Response Kits (RRK) and fly-away communications systems, in expeditionary modular and scalable form factors that can be flown on commercial airlines or military aircraft to a nationally declared disaster. (NC J6 DCCS combined the previously approved and funded Cellular System Technical Refresh and Emergency Response Communications System into one consolidated effort).

PE 0207277F ISR Innovations - P-40A

Family of systems providing high impact, quick reaction capabilities to warfighters for mission planning, rehearsal, visualization, and intelligence gathering purposes. Program components include: Eagle Vision, DoD's worldwide deployable commercial imagery ground station capability, and ISR innovations, rapid prototyping, operational evaluation and fielding of short notice, high payoff capabilities addressing immediate caps and/or shortfalls identified by warfighting activities. Eagle Vision provides direct downlink commercial imagery to operational commanders for mission support purposes.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the armed forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834010 / General Information Technology
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F
Line Item MDAP/MAIS Code: CAMI		
<p>PE 0207439F Electronic Warfare Integrated Reprogramming (EWIR) - P-40A DISTRIBUTED MISSION OPERATIONS AND THREAT CHANGE ANALYSIS: Conducted by the 453rd Electronic Warfare Squadron (453 EWS), EWIR provides analytical capabilities and reachback support for DoD acquisition , planning and mission execution activities. These capabilities ensure electronic warfare (EW) systems and integrated combat platforms correctly recognize and respond to enemy, friendly and noncombatant systems operating within the electromagnetic environment. The effort includes funds used to procure specialized information technology systems used to identify electromagnetic spectrum emitter changes that impact combat defensive and electronic warfare systems and to conduct detailed analyses in support of operational mission planning, tactics, techniques and procedures (TTP) development, acquisition and test & evaluation. These analyses provide the means to understand the performance of their systems in hostile environments, directly impacting the survivability of combat-coded USAF aircraft and aircrews. Funding for this exhibit contained in PE 0207439F.</p> <p>PE 0207448F C2ISR Tactical Data Link - P-40A Assistant Secretary of Defense, Command, Control, Communications, and Intelligence (ASD/C3I) directed implementation of the DoD Cryptographic Modernization Initiative (CMI) on 23 February 2001. Chairman, Joint Chiefs of Staff (CJCS) Notice 6510/NSA 3-9 directs the modernization of all cryptography in military systems in the US, NATO and Coalition nations. To prevent information compromise, the National Security Agency (NSA) mandate requires Link 16 cryptographic systems be upgraded. The CJCS directed a modernization effort at the recommendation of the NSA to modernize equipment and provide enhanced security for Link 16 tactical networks (Cryptographic Modernization Initiative (CM)). Likewise, a radio frequency spectrum memorandum of agreement between the DoD and the Department of Transportation mandated the internal frequency remapping of our Link 16 family of terminals to avoid conflict with next generation Federal Aviation Administration (FAA) radio aids to navigation. These two mandates, among other operational reliability and capability improvements, will be satisfied with procurement of the Link 16 Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) radios.</p> <p>PE 0207573F National Technical Nuclear Forensics - P-40A Continues efforts previously funded by OSD for Prompt Diagnostics. Procures terrestrial-based sensors and communications for prompt diagnostics, collection, analysis, and evaluation of a nuclear detonation. Funding also includes procurement of technical data and any required initial system support. Funding was moved from BPAC 834320 starting in FY20.</p> <p>PE 0207605F Wargaming and Simulation Centers - P-40A The Warrior Preparation Center conducts and supports integrated and distributed Live, Virtual, and Constructive (LVC) warfighter training for Joint and Combined partners in the European and African theaters.</p> <p>PE 0207697F Distributed Training and Exercises - P-40A AIR FORCE DISTRICT WASHINGTON: Wargaming and analysis suites, hardware, and software in direct support of the wargaming informational environment, which is distributed across the National Capitol Region, United States Air Force, and Combatant Commands worldwide. Funding for this exhibit contained in PE 0207697F.</p> <p>PE 0208288F Intel Data Applications - P-40A Funds the application of Intelligence data as datasets/databases, model and simulations, and analysis for combat and combat support users. Provides for the communications infrastructures required to support Intelligence data applications.</p> <p>PE 0305128F Security and Investigative Activities - P-40A The Air Force Office of Special Investigation (AFOSI) Directorate of Warfighting Integration is responsible for the delivery of Information Technology (IT) services, both unclassified and classified, to over 250 locations, world-wide. The directorate also has the responsibility for continually identifying and implementing advanced applications, tools and IT technology that improve AFOSI's ability to manage investigative activity for Air Force leaders. It accomplishes this mission through the management and oversight of personnel, products and systems associated with unclassified, Secret, special access, law enforcement sensitive (LES) and Top Secret/SCI computers and information systems, long-haul, communications circuits, official records, Privacy Act, Freedom of Information Act, publication and forms, and official mail to achieve the command's operational objectives in support of the AF and Office of the Secretary of Defense as well as to achieve Executive mandates to improve information sharing within and between the law enforcement and intelligence communities.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834010 / General Information Technology
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F
Line Item MDAP/MAIS Code: CAMI		
<p>PE 0305173F Space and Missile Test and Evaluation Center - P-40A The Research and Development Space and Missile Operations (RDSMO) program has transferred from PE 0305173F to PE 1203173F.</p> <p>PE 0305174F Space Innovation, Integration and Rapid Technology Development - P-40A Located at Peterson AFB, Colorado, the Space Innovation, Integration and Rapid Technology Development (SIIRTD) program develops and modifies modeling and simulation tools that Air Force Space Command's Space Analysis Center uses for operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Development activities incorporate changes in fielded and projected space operational capabilities, as well as technical improvements, into the group's software tools to ensure their data and technology remain current. Its innovation, education, and training activities foster solutions to operational deficiencies and enhance the integration of space systems into Air Force operations, thereby enabling service and joint warfighters to realized the full potential of existing and planned space capabilities.</p> <p>DISTRIBUTED COMMUNICATIONS ARCHITECTURE: This system provides a network based communications capability enabling dispersed space personnel to participate in space exercises and wargames and to assist in development, testing, and validation of SIIRTD innovation projects supporting the Combat Air Forces. It can also support limited command and control capabilities for space operations.</p> <p>SPACE ANALYSIS CENTER: Air Force Space Command's Space Analysis Center uses modeling and simulation tools to conduct operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Related modeling and simulation tool development is funded in RDT&E, AF, PE 0305174F, Space Innovation, Integration and Rapid Technology Development.</p> <p>PE 0305601F Mission Partner Environments - P-40A Mission Partner Environment (MPE) enables secure sharing of operational information for collaboration between and among the U.S. and mission partners to include federal, State, local, and tribal agencies, allies, coalition members, host nations, and other nations, United States and international Non-Governmental Organizations, multinational treaty organizations, and private sector organizations. The MPE program enables the United States (US) Department of Defense (DoD) to execute its assigned missions with mission partners across all ranges and phases of military operations to enable combined command and control (C2) of coalition forces while promoting effective exchange of C2 and intelligence information to enable effective use of the US and partner nation military power. MPE improves survivability and lethality of US Forces. DoD Directive 5101.22E, effective August 5, 2020, designated the Secretary of the Air Force as Executive Agent (EA) for the DoD Mission Partner environment. The EA, through the Mission Partner Capabilities Office provides DoD wide enterprise-level development, integration, systems engineering, architecture, and synchronized delivery of mission capabilities to include DoD-wide enterprise services that support joint and multinational warfighting functional information sharing. Additionally, the EA executes enterprise-level MPE PPBE activities to coordinate the development of MPE budget requirements and provide recommendations to OSD Principle Staff Assistants for PPBE guidance and to the DoD Component heads for performance guidance. The EA also documents the DoD MPE to provide a comprehensive understanding that informs future technical solutions. The FY2022 funding procures hardware and software to support the rationalization, consolidation and modernization of a common mission network capability that supports operations with the MPE.</p> <p>PE 0604281F Tactical Data Networks Enterprise - P-40A Tactical Data Link (TDL) enterprise efforts include equipment, fielding support, and associated contract support for the fielded Family of Gateways, as well as capability enhancements to TDLs, gateways, and AF contributions to the Joint Aerial Layer Network (JALN). These airborne networking systems enable combat forces to exchange information quickly and accurately by bridging discrete airborne, terrestrial, maritime, and space-based C4ISR networks. Tactical Data Network (TDN) Planning, Analysis and Monitoring (PAM) will add capability to modernize CONUS ground-based TDL gateways. Full Motion Video effort includes equipment, fielding support, contractor support, and training. These systems will add capability to modernize CONUS/OCONUS ground based strike decisions in the hostile environment.</p> <p>PE 0708012F Logistics Support Activities - P-40A GUNTER AIR FORCE BASE NETWORK SERVICES provide unique local area network (LAN) hardware to the population at Maxwell Air Force (MAFB)-Gunter Annex, AL including equipment for web access, file storage backup, information security, and application testing for AF programs worldwide hosted at MAFB-Gunter Annex, AL. LAN equipment enables MAFB-Gunter Annex to manage/support 122 programs and systems worldwide. MAFB-Gunter Annex exceeds the standard Base Information Transport Infrastructure (BITI) environment, therefore no funding is provided by BITI.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834010 / General Information Technology
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F
Line Item MDAP/MAIS Code: CAMI		
<p>PE 0708074F Joint Logistics Program - Total Asset Visibility - P-40A AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT): A collection of enabling technologies including linear and two-dimensional bar codes, radio frequency identification, smart cards, memory cards, laser cards, touch memory, and voice and biometrics identification. These technologies provide timely and accurate automatic capture, aggregation, and transfer of data to management information systems with minimal human involvement. By capitalizing on advances in technology the Air Force is able to gain efficiencies in the logistical supply chain and asset visibility throughout an item's life cycle. Project funding enables compatibility of Air Force and industry standards in the core areas of supply, transportation, and maintenance, as well as weaving commercial AIT business practices and standards into the Air Force's logistics infrastructure.</p> <p>PE 0801380F AF LVC Operational Training (LVC-OT) - P-40A PE 0801380F AF LVC Operational Training (LVC-OT) SIMULATORS COMMON ARCHITECTURE REQUIREMENTS AND STANDARDS (SCARS): An initiative to incrementally establish a common open-system architecture for Air Force simulators that leverages common applications, supports efficient and rapid updates to capabilities, evolves with cybersecurity threats and controls, and minimizes lifecycle costs.</p> <p>PE 0804711F Recruit Training Units - P-40A BASIC MILITARY TRAINING (BMT) SURVEILLANCE SECURITY SYSTEM: Basic Military Training sustains the combat capability of the Air Force (Active duty, Air National Guard and Air Force Reserve Command) with trained airmen. MTI Misconduct-Restore The Trust /Requirements associated with MTI misconduct issues at BMT. Due to the sexual misconduct by MTIs at BMT, AETC/CC directed a Commander Directed Investigation (CDI) to identify issues that place Airmen at risk in their training environment. SECAF/CSAF support findings and recommended actions to "Eliminate Detection Weakness". This effort continues the purchase, installation, and integration of a surveillance system covering common areas of the BMT facilities at JBSA-Lackland AFB for the deterrence and prosecution of misconduct. It includes hardware, system engineering/test and evaluation, site survey, infrastructure installation and support. Detailed requirements include: network switch, network storage device/upgrade package, computer monitor, site license, channel expansion license, hard drive, uninterruptable power supply, extended battery, digital monitor, cameras, and camera communication cable.</p> <p>PE 0804721F Service Academies - P-40A AIR FORCE ACADEMY: FIX AIR FORCE ACADEMY MISSION NET: USAFA is executing a multi-year project to fix disconnects/deficiencies in its University-wide WiFi system on its primary mission network. Most buildings were built in the 1960s (governed by historic preservation rules/restrictions), and either do not have any WiFi at all, or have sub-standard WiFi coverage insufficient to meet USAFA's mission requirements for academics, military training, aviation/airmanship, and NCAA athletics. PEC 84721 IT Investment funds (3080) are sole source of funding for this multi-year program to fix these disconnects/deficiencies, and ensure we are able to meet our 10 U.S.C Section 9453 requirement to graduate & commission approximately 1,000 2Lt's each year. The lack of WiFi is a direct, causal & imminent risk to USAFA's accreditation as a degree-granting university. Costs will be in excess of the 1.5M programmed each year, and will continue year-by-year after until the disconnects/deficiencies are fixed (estimated at 8+ years).</p> <p>PE 0804731F General Skill Training - P-40A GENERAL SKILL TRAINING: General Skills Training supports initial, advanced and supplemental training associated with all Air Force career fields taught or managed under Goodfellow, Keesler, Vandenberg, Sheppard, Lackland, and Fort Sam. This includes classroom and field training operations, management systems for students and faculty, and other requirements directly supporting Technical Training Groups, detachments, and various operating locations.</p> <p>TECHNICAL TRAINING MANAGEMENT SYSTEM (TTMS): TTMS provides AETC personnel and other users a suite of integrated and customized Commercial Off-The-Shelf (COTS)/Government Off-The-Shelf (GOTS) software products implemented in a centralized, enterprise-wide, web-based architecture for the development and administration of basic military and technical training. TTMS supports nine functions: student management, course design and development (for AETC and METC), student evaluation, statistical analysis and reporting, surveys, assessments and testing, Airman Interactive Management System (AIMS) for MTLs, Job Match/Seat Bank, and TTMS BMT for student processing.</p> <p>PE 0804751F Professional Military Education - P-40A</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834010 / General Information Technology
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F
Line Item MDAP/MAIS Code: CAMI		
<p>Air University (AU) Education Technology (ET) Program funds the cradle-to-grave lifecycle management of IT systems, services, and resources that comprise AU Enterprise ET/IT portfolio. The primary systems under AU IT are CDSAR, STARS, AUSIS, AUSRIS, AUREPM, and AUSMS. This portfolio provides enrollment, content delivery, and student administration capabilities critical to all AU resident and non-resident courses. At the Air Force level, A6 provides the system of record capability for all AF PME/PCE; a system crucial to ensuring a fully prepared (trained and educated) expeditionary force. As AU aggressively pursues the enhancement of processes by which educational products are delivered to students, ET/IT demands will increase in frequency and complexity. Quickly revising software and inserting technology into those processes in a timeframe adequate to realize return on investment dollars or educational benefits requires an appropriately resourced A6 organization.</p> <p>PE 0804752F Other Professional Education - P-40A Accreditation of AFIT's engineering programs is directly related to both the existence of the well-equipped and maintained laboratories and an institutional commitment to fund equipment and maintenance. To serve the research needs of the USAF/DoD, students have up-to-date equipment to make tangible contributions to AF research needs. Existing equipment has reached the age where the cost to maintain it is impractical.</p> <p>PE 0901279F Facilities Operation - Administrative - P-40A CIVIL ENGINEER'S (CE) IT TRANSFORMATION: CE IT Transformation program's mission is to transform CE's business processes to better serve the CE customers and meet AF Transformational Goals. The plan is to leverage industry best practices, optimize core business processes, and replace existing outdated IT capabilities with a set of commercial off-the-shelf (COTS) software solutions and a service provider to deploy and maintain the system. This COTS solution will provide a robust, enterprise-wide CE capability and will consist of an integrated set of embedded / configurable best business practices and capabilities to support the following CE missions: Real Property Management; Work & Supply Management, Project Management, Energy Management, Housing Management, Financial Management, Environmental Management, Planning, Emergency Services, Fire Operations and EOD.</p> <p>PE 0901299F AF A1 Systems - P-40A Provides funding for the sustainment and operation of hardware and software supporting Total Force Human Capital IT systems (RegAF, Reserve, ANG, Civilians, Retirees, and Beneficiates), network applications and infrastructure. These systems include items such as client servers, computer hardware and software, LANs, web self service and relational database management technologies and associated equipment to support all phases of the personnel life cycle, including accession, training, assignment, promotion, and retirement/separation. There are two programs:</p> <p>a. MILITARY PERSONNEL DATA SYSTEM: MilPDS funding supports all AF Military Personnel Operations to include technology refresh for hardware supporting a variety of AF personnel applications such as: Automated Records Management Systems and Virtual Military Personnel Flight among others. Funding also supports MilPDS Federal Data Center Consolidation Initiative (FDCCI) compliance efforts.</p> <p>b. AIR FORCE PERSONNEL OPERATIONS ACTIVITY (AFPOA) OPERATIONS: Funding provides for the procurement of the AFPOA data center infrastructure, including hardware and some software maintenance. Funding is used to support telephony requirements of the AF Total Force Service Centers at San Antonio and Denver. It also supports the Federal Data Center Consolidation Initiative (FDCCI) compliance efforts directed by Public Law 104-106 and 105-261 and DoDI 1400.25, Vol 1100.</p> <p>PE 0901410F Contracting Information Technology System - P-40A CON-IT provides a single management writing system for the Air Force contracting community to support all contracting needs including base operations, logistics, contingency and weapons system contracting world-wide. CON-IT will enable strategic sourcing and other acquisition efficiencies by standardizing data, business rules, and milestone tracking. Furthermore, CON-IT will allow for a standardized and integrated method of anticipating, reacting, and responding to the current pace and changes in process, regulation, and technology across the contract domain. CON-IT is the replacement for Standard Procurement System (SPS). When fully implemented, CON-IT will enable process changes necessary to converge on a common contract writing/management capability within the Air Force. Funding for this exhibit contained in PE 0901410F.</p> <p>PE 0901538F Financial Management Information Systems Development - P-40A PBES is a single solution software development effort that will utilize a Service Oriented Architecture (SOA) to deliver budgeting and programming capability for the United States Air Force. PBES will replace legacy systems such as the Automated Budget Interactive Data Environment System (ABIDES) and Resource Allocation Programming Information Decision System (RAPIDS) and will support the budget</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834010 / General Information Technology
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F
Line Item MDAP/MAIS Code: CAMI		
formulation and force programming process. Upon full deployment of PBES, the system will be compliant with the Standard Financial Information Structure (SFIS) and Standard Line of Accounting (SLOA) conventions, which will enable standardization of data across the Department of Defense (DoD). Funding for this exhibit contained in PE 0901538F.		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

P-1 Line Item Number / Title:
834010 / General Information Technology

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F

Line Item MDAP/MAIS Code: CAMI

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	US Northern Command Communications				- / -	- / 3.757	- / 3.819	- / 3.406	- / -	- / 3.406
P-40a	Electronic Warfare Integrated Reprogramming (EWIR)				- / -	- / 1.443	- / 1.466	- / 1.306	- / -	- / 1.306
P-40a	C2ISR Tactical Data Link				- / -	- / 2.290	- / 3.342	- / 2.978	- / -	- / 2.978
P-40a	National Technical Nuclear Forensics				- / -	- / 4.581	- / 5.202	- / 4.000	- / -	- / 4.000
P-40a	Wargaming and Simulation Centers				- / -	- / 0.000	- / 0.000	- / 0.698	- / -	- / 0.698
P-40a	Distributed Training and Exercises				- / -	- / 0.324	- / 0.330	- / 0.293	- / -	- / 0.293
P-40a	Intel Data Applications				- / -	- / 5.338	- / 5.444	- / 5.046	- / -	- / 5.046
P-40a	Security and Investigative Activities				- / -	- / 1.722	- / 0.450	- / 1.560	- / -	- / 1.560
P-40a	Mission Partner Environments				- / -	- / 1.585	- / 0.478	- / 1.553	- / -	- / 1.553
P-40a	Communications and Information Technology				- / -	- / 0.000	- / 3.796	- / 1.689	- / -	- / 1.689
P-40a	Tactical Data Networks Enterprise				- / -	- / 1.100	- / 2.407	- / 4.213	- / -	- / 4.213
P-40a	Logistics Support Activities				- / -	- / 1.435	- / 1.491	- / 1.504	- / -	- / 1.504
P-40a	AF LVC Operational Training (LVC-OT)				- / -	- / 4.820	- / 9.190	- / 11.858	- / -	- / 11.858
P-40a	Recruit Training Units				- / -	- / 0.816	- / 0.629	- / 0.664	- / -	- / 0.664
P-40a	Service Academies				- / -	- / 0.500	- / 1.498	- / 1.387	- / -	- / 1.387
P-40a	General Skill Training				- / -	- / 0.673	- / 0.684	- / 0.444	- / -	- / 0.444
P-40a	Professional Military Education				- / -	- / 0.981	- / 0.398	- / 0.888	- / -	- / 0.888
P-40a	Other Professional Education				- / -	- / 0.475	- / 0.482	- / 0.430	- / -	- / 0.430
P-40a	AF A1 Systems				- / -	- / 3.099	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	Financial Management Information Systems Development				- / -	- / 1.586	- / 0.694	- / 0.000	- / -	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 36.525	- / 41.800	- / 43.917	- / -	- / 43.917

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

Justification:
 PE 0201130F US Northern Command Communications - P-40A
 a. NORAD AND USNORTHCOM INTEROPERABLE COMMUNICATIONS: FY 2022 funding procures equipment and associated support that provide deployable, interoperable commercial communications capability to NORAD - USNORTHCOM Headquarters; USNORTHCOM Domestic Operations (DOMOPS), and Subordinate Commands). The system consists of deployable communications base stations, infrastructure, First Responder and DoD Joint Radio System handsets, and cellular-wireless/First Responder Network 4G LTE basebands/handsets to enable the Defense Support of Civil Authorities mission.
 b. DEPLOYABLE COMMUNICATION CAPABILITY SYSTEM LIFE CYCLE MANAGEMENT: FY 2022 funding ensures system life cycle support of the Deployable Communications Fleet, as well as, the lifecycle maintenance of these USNORTHCOM deployable communication systems. A centralized managed construct to enable the configuration management of deployable communication systems.

 PE 0207439F Electronic Warfare Integrated Reprogramming (EWIR) - P-40A

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834010 / General Information Technology
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F
Line Item MDAP/MAIS Code: CAMI		
<p>FY 2022 funding will be used to replace capital equipment for the electronic warfare (EW) Threat Change Analysis and Distributed Mission Operations infrastructure and databases. Specific equipment items and quantities may change due to mission needs.</p> <p>PE 0207448F C2ISR Tactical Data Link - P-40A FY 2022 procurement of Link 16 MIDS Joint Tactical Radio System (JTRS) radios will satisfy two mandates (FAA frequency and NSA crypto), among other operational reliability and capability improvements for Link 16 tactical networks. Funding for this exhibit contained in PE 0207448F.</p> <p>PE 0207573F National Technical Nuclear Forensics - P-40A FY 2022 funding procures terrestrial-based nodes/sensor for signal detection, collection, analysis, and evaluation of a nuclear detonation. Funding also includes procurement of technical data required for production and any required initial system support. Funding was moved from BPAC 834320 starting in FY 2020.</p> <p>PE 0207697F Distributed Training and Exercises - P-40A AIR FORCE DISTRICT WASHINGTON: FY 2022 funding will be used to procure hardware, software and licensing to complete and instantiate the latest version of the Wargame Information Environment in support of CSAF and AFMAJCOMs objective priorities for Air Force Wargaming Enterprise.</p> <p>PE 0208288F Intel Data Applications - P-40A FY 2022 funds the application of Intelligence data as datasets/databases, model and simulations, and analysis for combat and combat support users. Provides for the communications infrastructures required to support Intelligence data applications.</p> <p>PE 0305128F Security and Investigative Activities - P-40A FY22 funds are required to provide AFOSI Server Virtualization, which will increase efficiency of limited system administrative staff and reduce future capital investment costs of new hardware. The virtual server environment also delivers new capability not available in a non-virtual server environment, such as rapid Information Assurance patching, automatic error detection, failover and disaster recovery of critical applications, reduce footprint from both a physical space and energy perspective. These funds will enable AFOSI standard IT equipment and specialized investigative equipment to provide the latest capabilities of specialized investigative support to DoD/USAF investigations/operations both in-garrison and in support of wartime operations, for over 3,000 AFOSI personnel in more than 250 worldwide locations.</p> <p>PE 0305601F Mission Partner Environments - P-40A FY 2022 funding procures hardware and software to support operations with the Mission Partners Environment.</p> <p>PE 0604281F Tactical Data Networks Enterprise - P-40A FY22 funding provides procurement for all Tactical Data Link (TDL) enterprise efforts. This includes equipment, fielding support, and associated contract support for the fielded Family of Gateways, as well as capability enhancements to TDLs, gateways, and AF contributions to the Joint Aerial Layer Network (JALN). These airborne networking systems enable combat forces to exchange information quickly and accurately by bridging discrete airborne, terrestrial, maritime, and space-based C4ISR networks. Tactical Data Network (TDN) Planning, Analysis and Monitoring (PAM) will add capability to modernize CONUS ground-based TDL gateways. Funding for this exhibit contained in PE 0604281F.</p> <p>PE 0708012F Logistics Support Activities - P-40A FY22 funding provides technical refresh of all hardware resources for the Gunter LAN to deliver full network support. This infrastructure enables continued operational testing of the Standard Desktop Configuration (SDC) and other Microsoft products. Provides early look for AFLCMC/HI programs (Logistics systems including EDCL) to ensure seamless integration of new capabilities w/o harm to operational systems and negative impact to personnel across the AF. Daily operations of AFLCMC/HI PMOs to develop, field, sustain, and manage their assigned systems is unhindered.</p> <p>PE 0801380F AF LVC Operational Training (LVC-OT) - P-40A</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834010 / General Information Technology
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F
Line Item MDAP/MAIS Code: CAMI		
<p>PE 0801380F AF LVC Operational Training (LVC-OT) SIMULATOR COMMON ARCHITECTURE REQUIREMENTS AND STANDARS (SCARS): Funding supports procurement of hardware necessary to establish a common open system architecture for Air Force simulators. FY21 efforts include, but are not limited to, site connections to the operations center.</p> <p>PE 0804711F Recruit Training Units - P-40A FY22 funding procures general information technology equipment for BASIC MILITARY TRAINING (BMT) SURVEILLANCE SECURITY SYSTEM: Basic Military Training sustains the combat capability of the Air Force (Active duty, Air National Guard and Air Force Reserve Command) with trained airmen. MTI Misconduct-Restore The Trust /Requirements associated with MTI misconduct issues at BMT. Due to the sexual misconduct by MTIs at BMT, AETC/CC directed a Commander Directed Investigation (CDI) to identify issues that place Airmen at risk in their training environment. SECAF/CSAF support findings and recommended actions to "Eliminate Detection Weakness". This effort continues the purchase, installation, and integration of a surveillance system covering common areas of the BMT facilities at JBSA-Lackland AFB for the deterrence and prosecution of misconduct. It includes hardware, system engineering/test and evaluation, site survey, infrastructure installation and support. Detailed requirements include: network switch, network storage device/upgrade package, computer monitor, site license, channel expansion license, hard drive, uninterruptable power supply, extended battery, digital monitor, cameras, and camera communication cable</p> <p>PE 0804721F Service Academies - P-40A AIR FORCE ACADEMY: FIX AIR FORCE ACADEMY MISSION NET: PEC 84721 FY22 funds (3080) are mission-critical for USAFA's multi-year project to fix disconnects/deficiencies in its University-wide WiFi systems on its mission network. Adequate WiFi will ensure USAFA meets our 10 U.S.C Section 9453 requirement to graduate & commission approximately 1,000 2Lt's each year (the lack of WiFi is a direct, causal & imminent risk to USAFA's accreditation as a degree-granting university). It will also ensure compliance with Presidential Executive Order (EO) 13800, DoDI 8510.01, NIST SP 800-53, AFIs 17-100 & 17-110, and the mobility aspects of the DepSecDef's "Accelerating Enterprise Cloud Adoption" mandate and SAF/CN's "USAF Cloud Migration" mandate. As such, it is USAFA's #1 IT priority, and mission critical.</p> <p>PE 0804731F General Skill Training - P-40A GENERAL SKILL TRAINING: FY22 funding supports procurement of electronic and telecom equipment supporting the General Skills Training enterprise, and primarily includes video equipment and training management systems equipment (other than TTMS).</p> <p>PE 0804751F Professional Military Education - P-40A FY22 funding procures IT systems, services, and resources that comprise AU Enterprise ET/IT portfolio. The primary systems under AU IT are CDSAR, STARS, AUSIS, AUSRIS, AUREPM, and AUSMS. This portfolio provides enrollment, content delivery, and student administration capabilities critical to all AU resident to all AU resident and non-resident courses. At the Air Force level, A6 provides the system of record capability for all AF PME/PCE; a system crucial to ensuring a fully prepared (trained and educated) expeditionary force.</p> <p>PE 0804752F Other Professional Education - P-40A FY22 funding provides the cradle-to-grave lifecycle management for the support and sustainment of AFIT's specialized information technology education networks with its core services for education and student research requirements. This includes: in- enrollment, content delivery, and student management and administration capabilities critical to all AFIT resident graduate / PCE students and all non-resident/DL courses.</p>		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** US Northern Command Communications

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
INTEROPERABLE COMMUNICATION	A		-	-	-	-	-	0.526	-	-	0.526	-	-	0.427	-	-	-	-	-	0.427
DEPLOYABLE COMMUNICATIONS CAPABILITY SYSTEM LIFE CYCLE MANAGEMENT	A		-	-	-	-	-	3.231	-	-	3.293	-	-	2.979	-	-	-	-	-	2.979
Subtotal: Uncategorized			-	-	-	-	-	3.757	-	-	3.819	-	-	3.406	-	-	-	-	-	3.406
Total			-	-	-	-	-	3.757	-	-	3.819	-	-	3.406	-	-	-	-	-	3.406

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4							P-1 Line Item Number / Title: 834010 / General Information Technology								Aggregated Items Title: Electronic Warfare Integrated Reprogramming (EWIR)				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
EWIR Hardware																				
Client PCs	A		-	-	-	0.200	1	0.200	0.200	1	0.200	0.180	1	0.180	-	-	-	0.180	1	0.180
Computer Server	A		-	-	-	0.600	1	0.600	0.600	1	0.600	0.524	1	0.524	-	-	-	0.524	1	0.524
Data Storage System	A		-	-	-	0.438	1	0.438	0.461	1	0.461	0.421	1	0.421	-	-	-	0.421	1	0.421
Network Infrastructure	A		-	-	-	0.205	1	0.205	0.205	1	0.205	0.181	1	0.181	-	-	-	0.181	1	0.181
Tape Backup System	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: EWIR Hardware			-	-	-	-	-	1.443	-	-	1.466	-	-	1.306	-	-	-	-	-	1.306
Total			-	-	-	-	-	1.443	-	-	1.466	-	-	1.306	-	-	-	-	-	1.306

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

Remarks:
N/A

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834010 / General Information Technology	Aggregated Items Title: C2ISR Tactical Data Link
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
MIDS JTRS																				
Install Kits (Active) PE 0207488F	A		-	-	-	0.254	9	2.290	0.257	13	3.342	0.229	13	2.978	-	-	-	0.229	13	2.978
Subtotal: MIDS JTRS			-	-	-	-	-	2.290	-	-	3.342	-	-	2.978	-	-	-	-	-	2.978
Other Government Support																				
Other Government Support	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Other Government Support			-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	2.290	-	-	3.342	-	-	2.978	-	-	-	-	-	2.978

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834010 / General Information Technology	Aggregated Items Title: National Technical Nuclear Forensics
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Nuclear Forensics - Prompt Diagnostics																				
Nuclear Forensics - Prompt Diagnostics	A		-	-	-	-	-	4.581	-	-	5.202	-	-	4.000	-	-	-	-	-	4.000
Subtotal: Nuclear Forensics - Prompt Diagnostics			-	-	-	-	-	4.581	-	-	5.202	-	-	4.000	-	-	-	-	-	4.000
Total			-	-	-	-	-	4.581	-	-	5.202	-	-	4.000	-	-	-	-	-	4.000

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

Remarks:
Continues efforts previously funded by OSD for Prompt Diagnostics. Procures terrestrial-based sensors and communications for prompt diagnostics, collection, analysis, and evaluation of a nuclear detonation. Funding also includes procurement of technical data and any required initial system support as well as initial installation costs.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Wargaming and Simulation Centers

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
WARRIOR PREPARATION CENTER PE 0207605F	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.698	-	-	-	-	-	0.698
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	0.000	-	-	0.698	-	-	-	-	-	0.698
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	0.698	-	-	-	-	-	0.698

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

Remarks:

FY22: Funds removed in FY21 to meet higher Department of Defense priorities were re-baselined in FY22.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834010 / General Information Technology	Aggregated Items Title: Distributed Training and Exercises
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
DISTRIBUTED TRAINING AND EXERCISES PE 0207697F	A		-	-	-	-	-	0.324	-	-	0.330	-	-	0.293	-	-	-	-	-	0.293
Subtotal: Uncategorized			-	-	-	-	-	0.324	-	-	0.330	-	-	0.293	-	-	-	-	-	0.293
Total			-	-	-	-	-	0.324	-	-	0.330	-	-	0.293	-	-	-	-	-	0.293

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Intel Data Applications

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Intel Data Applications																				
Intel Data Applications H/W and S/W	A		-	-	-	-	-	5.338	-	-	5.444	-	-	5.046	-	-	-	-	-	5.046
Subtotal: Intel Data Applications			-	-	-	-	-	5.338	-	-	5.444	-	-	5.046	-	-	-	-	-	5.046
Total			-	-	-	-	-	5.338	-	-	5.444	-	-	5.046	-	-	-	-	-	5.046

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834010 / General Information Technology	Aggregated Items Title: Security and Investigative Activities
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
OSI OPERATIONS PE 0305128F	A		-	-	-	-	-	1.722	-	-	0.450	-	-	1.560	-	-	-	-	-	1.560
Subtotal: Uncategorized			-	-	-	-	-	1.722	-	-	0.450	-	-	1.560	-	-	-	-	-	1.560
Total			-	-	-	-	-	1.722	-	-	0.450	-	-	1.560	-	-	-	-	-	1.560

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Mission Partner Environments

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Mission Partner Environment																				
Mission Partner Environment	A		-	-	-	-	-	1.585	-	-	0.478	-	-	1.553	-	-	-	-	-	1.553
Subtotal: Mission Partner Environment			-	-	-	-	-	1.585	-	-	0.478	-	-	1.553	-	-	-	-	-	1.553
Total			-	-	-	-	-	1.585	-	-	0.478	-	-	1.553	-	-	-	-	-	1.553

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

Remarks:
This program transferred from Defense Information Systems Agency (DISA) to USAF in FY19.

Mission Partner Environment (MPE) enables secure sharing of operational information for collaboration between and among the U.S. and mission partners to include federal, State, local, and tribal agencies, allies, coalition members, host nations, and other nations, United States and international Non-Governmental Organizations, multinational treaty organizations, and private sector organizations. The MPE program enables the United States (US) Department of Defense (DoD) to execute its assigned missions with mission partners across the complete ranges and phases of military operations to assist combined command and control (C2) of coalition forces while meeting the information sharing requirements within existing bi-lateral and multi-lateral agreements. Also, it promotes effective information exchange and provides applications to enable effective use of the United States and Partner nation military power. MPE provides the warfighter mission with technology to improve mission effectiveness and cyber security.

In response to program decision memorandum, funding for Mission Partner Environment transferred the capabilities the Combined Enterprise Regional Information Exchange System (CENTRIXS), Pegasus, the Multinational Information Sharing (MNIS) program, the All Partners Access Network (APAN), and the Combined Federal Battle Labs Network (CBFLNet) to the Mission Partner Environment Program. MPE enables secure sharing of operational information and enhances collaboration between the US forces, and trusted allies and other multinational partners. This effort increases combat effectiveness by leveraging capabilities and information from all partners. FY2022 funding procures hardware and software to support operations with the Mission Partners environment.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4					P-1 Line Item Number / Title: 834010 / General Information Technology										Aggregated Items Title: Communications and Information Technology				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
New Item	A		-	-	-	-	-	0.000	-	-	3.796	-	-	1.689	-	-	-	-	-	1.689
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	3.796	-	-	1.689	-	-	-	-	-	1.689
Total			-	-	-	-	-	0.000	-	-	3.796	-	-	1.689	-	-	-	-	-	1.689

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834010 / General Information Technology	Aggregated Items Title: Tactical Data Networks Enterprise
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
TDL PAM																				
c. TACTICAL DATA NETWORKS ENTERPRISE (PE 0604281F)	A		-	-	-	0.100	11	1.100	-	-	2.407	-	-	4.213	-	-	-	-	-	4.213
Subtotal: TDL PAM			-	-	-	-	-	1.100	-	-	2.407	-	-	4.213	-	-	-	-	-	4.213
Total			-	-	-	-	-	1.100	-	-	2.407	-	-	4.213	-	-	-	-	-	4.213

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834010 / General Information Technology	Aggregated Items Title: Logistics Support Activities
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
GUNTER AIR FORCE BASE NETWORK SERVICES PE 0708012F	A		-	-	-	-	-	1.435	-	-	1.491	-	-	1.504	-	-	-	-	-	1.504
Subtotal: Uncategorized			-	-	-	-	-	1.435	-	-	1.491	-	-	1.504	-	-	-	-	-	1.504
Total			-	-	-	-	-	1.435	-	-	1.491	-	-	1.504	-	-	-	-	-	1.504

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834010 / General Information Technology	Aggregated Items Title: AF LVC Operational Training (LVC-OT)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
SIMULATORS COMMON ARCHITECTURE REQUIREMENTS AND STANDARDS	A		-	-	-	-	-	4.820	-	-	9.190	-	-	11.858	-	-	-	-	-	11.858
Subtotal: Uncategorized			-	-	-	-	-	4.820	-	-	9.190	-	-	11.858	-	-	-	-	-	11.858
Total			-	-	-	-	-	4.820	-	-	9.190	-	-	11.858	-	-	-	-	-	11.858

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834010 / General Information Technology	Aggregated Items Title: Recruit Training Units
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BMT Surveillance System PE 0804711F	A		-	-	-	-	-	0.816	-	-	0.629	-	-	0.664	-	-	-	-	-	0.664
Subtotal: Uncategorized			-	-	-	-	-	0.816	-	-	0.629	-	-	0.664	-	-	-	-	-	0.664
Total			-	-	-	-	-	0.816	-	-	0.629	-	-	0.664	-	-	-	-	-	0.664

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Service Academies

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
SERVICE ACADEMIES - USAFA PE 0804721F	A		-	-	-	0.500	1	0.500	1.498	1	1.498	1.387	1	1.387	-	-	-	1.387	1	1.387
Subtotal: Uncategorized			-	-	-	-	-	0.500	-	-	1.498	-	-	1.387	-	-	-	-	-	1.387
Total			-	-	-	-	-	0.500	-	-	1.498	-	-	1.387	-	-	-	-	-	1.387

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** General Skill Training

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
GEN SKILL TRAINING PE 0804731F	A		-	-	-	-	-	0.335	-	-	0.350	-	-	0.226	-	-	-	-	-	0.226
TECH TNG MANAGEMENT SYSTEM	A		-	-	-	-	-	0.338	-	-	0.334	-	-	0.218	-	-	-	-	-	0.218
Subtotal: Uncategorized			-	-	-	-	-	0.673	-	-	0.684	-	-	0.444	-	-	-	-	-	0.444
Total			-	-	-	-	-	0.673	-	-	0.684	-	-	0.444	-	-	-	-	-	0.444

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

Remarks:
FYDP baseline data for OAC 64 ONLY.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Professional Military Education

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Professional Military Education																				
Professional Military Education PE 0804751F	A		-	-	-	-	-	0.981	-	-	0.398	-	-	0.888	-	-	-	-	-	0.888
Subtotal: Professional Military Education			-	-	-	-	-	0.981	-	-	0.398	-	-	0.888	-	-	-	-	-	0.888
Total			-	-	-	-	-	0.981	-	-	0.398	-	-	0.888	-	-	-	-	-	0.888

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** Other Professional Education

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Other Professional Education																				
OTHER PROFESSIONAL EDUCATION PE 0804752F	A		-	-	-	-	-	0.475	-	-	0.482	-	-	0.430	-	-	-	-	-	0.430
Subtotal: Other Professional Education			-	-	-	-	-	0.475	-	-	0.482	-	-	0.430	-	-	-	-	-	0.430
Total			-	-	-	-	-	0.475	-	-	0.482	-	-	0.430	-	-	-	-	-	0.430

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834010 / General Information Technology **Aggregated Items Title:** AF A1 Systems

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
PERSONNEL SERVICE DELIVERY PE 0901299F	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
MILITARY PERSONNEL DATA SYSTEM (MLPDS)	A		-	-	-	-	-	1.112	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
REGIONALIZATION OF CIV PERS SUPPORT	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
AIR FORCE PERSONNEL CENTER	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Air Force Personnel Operations Agency (AFPOA) Network Infrastructure	A		-	-	-	-	-	1.987	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Uncategorized			-	-	-	-	-	3.099	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	3.099	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

Remarks:
FY19 funding was reduced due to under execution. FY21 funding is no longer required due to the AFPOA Data Center closure and funds were realigned to 3400 funds.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4					P-1 Line Item Number / Title: 834010 / General Information Technology										Aggregated Items Title: Financial Management Information Systems Development				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Program Budget Enterprise System																				
Software Licenses	A		-	-	-	-	-	1.586	-	-	0.694	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Program Budget Enterprise System			-	-	-	-	-	1.586	-	-	0.694	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	1.586	-	-	0.694	-	-	0.000	-	-	-	-	-	0.000

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834040 / Af Global Command & Control Sys

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0303150F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	2.756	2.602	0.414	-	0.414	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	2.756	2.602	0.414	-	0.414	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	2.756	2.602	0.414	-	0.414	-	-	-	-	-	-

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

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

Description:

GLOBAL COMMAND AND CONTROL SYSTEM AIR FORCE (GCCS-AF): The GCCS-AF program provides the common AF infrastructure hardware and software necessary to pass AF command and control (C2) data among commands, their components, and the joint GCCS. This program procures GCCS components which include, but are not limited to, items such as servers, commercial-off-the-shelf (COTS) software, and associated peripherals to provide users with the full suite of joint baseline capability (including the common operating picture and Integrated Imagery & Intelligence). GCCS-AF is integrated at the following locations to establish initial and full joint connectivity and operational capability across the spectrum of intelligence, operations, war planning, manpower, and logistics: AF-supported war-fighting commands, AF critical sites, Headquarters United States Air Force, Major Command headquarters (MAJCOM), numbered air forces, wings, Air National Guard (ANG) bases, Air Force Reserve (AFR) bases, and remote sites. Each site will comply with current Air Force and Department of Defense (DoD) network initiatives by employing a standardized interface among AF base-level classified C2 networks, AF base-level network control centers, and the joint Defense Information Systems Agency (DISA) Secret Internet Protocol Router Network (SIPRNET). This program provides a flexible open system and distributed C2 architecture necessary to support the joint GCCS. GCCS supports AF operations by installing and upgrading a site's classified C2 system through extensive use of COTS technology that adheres to AF command and control, communications, and computer architectures and standards.

Funding for the exhibit contained in PE 0303150F: GLOBAL COMMAND AND CONTROL SYSTEM

Justification:

GLOBAL COMMAND AND CONTROL SYSTEM AIR FORCE (GCCS-AF): FY22 procurement funding procures various types and quantities of hardware and software in support of installation and unit mission requirements for Air Force personnel. GCCS-AF will procure and install GCCS-Joint (GCCS-J) version 6.0 hardware and software (government-off-the-shelf and commercial-off-the-shelf) at warfighter Combatant Command (CCMD) and MAJCOM locations, providing a full spectrum of command, control, war planning, logistics, and intelligence capability from strategic to unit level operations with total joint service connectivity. The GCCS architecture supports functional users on each base and specifically incorporates war planning functions into GCCS. These fielding activities are consistent with the AF's Air Expeditionary Force (AEF) C2 structure and integration with DoD's emerging next generation joint C2 enabler.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 834050 / Battlefield Airborne Control Node (BACN)

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	48.478	0.000	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	48.478	0.000	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	48.478	0.000	0.000	-	0.000	-	-	-	-	-	-

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

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

Description:

Battlefield Airborne Communication Node (BACN) provides a flexible, long-endurance, responsive airborne communications capability. BACN provides a dedicated airborne capability to conduct voice bridge translation, Tactical Data Link (TDL) gateway and TDL relay functions for beyond-line-of-sight (BLOS) data communications.

This BACN payload is controlled by ground stations that are comprised of multiple support elements: a Payload Control Element - Launch (PCE-L) and Payload Control Element - Mission (PCE-M), and a Rapidly Deployable Payload Control Element (RD-PCE) that provides the same PCE-L and PCE-M functionality in rapidly deployable configuration, and any additional equipment required to support BACN Payload.

Justification:

This BACN payload is controlled by ground stations that are comprised of two support elements: a Payload Control Element - Launch (PCE-L) and Payload Control Element - Mission (PCE-M). These ground stations also provide a ground entry point for BACN communications capabilities. The Rapidly Deployable Payload Control Element (RD-PCE) will provide the same PCE-L and PCE-M functionality in rapidly deployable configuration.

No Budget Year FY22 funds requested

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

P-1 Line Item Number / Title:
 834070 / Mobility Command And Control

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	21.186	10.541	10.619	-	10.619	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	21.186	10.541	10.619	-	10.619	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	21.186	10.541	10.619	-	10.619	-	-	-	-	-	-

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

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

Description:

PE 0401130F C-17 Aircraft (IF) - P-40A

Roll-On Conference Capsule (ROCC), when flown with the Steel Eagle module, enables US Government senior leaders and travel staff to work, communicate, and rest during long range missions into threat areas, with the protection of the C-17A Globemaster III's defensive systems capability. After ROCC airworthiness is determined during the RDT&E phase, the first ROCC capsule will be converted to the production configuration and delivered in FY21. The second ROCC capsule will be manufactured with delivery in FY22 along with an integrated logistics support package, heavy maintenance bench equipment, training services, and three years of contractor operation and maintenance support (CO&MS). Funding provided for ROCC can be used for program management administration. Funding for this exhibit contained in PE 0401130F.

PE 0401840F AMC Command and Control System - P-40A

GLOBAL MOBILITY COMMAND AND CONTROL (C2) ARCHITECTURE AIR MOBILITY COMMAND (AMC): The AMC C2 architecture is an integrated, command-wide program that supports US Air Force airlift/air refueling missions around the globe with centralized control/decentralized execution. To execute America's Global Reach mission, Air Mobility Command's 618th Air Operations Center (AOC) plans, schedules, and directs a fleet of more than 1,100 mobility aircraft. The 618th AOC operates combat delivery, strategic airlift, air refueling, and aeromedical evacuation operations around the world. Funding for this exhibit is contained in program element (PE) 0401840F.

MOBILITY AIR FORCE (MAF) COMMAND AND CONTROL (C2) INFRASTRUCTURE: Provides base wired/wireless infrastructure equipment supporting AMC's 618th AOC and AMC's 11 bases to assure connectivity to AMC's command and control (C2) systems and to ensure they remain operational at AMC bases and operating locations. MAF C2 Infrastructure ensures connectivity with critical Air Force systems such as the Information Transport System (ITS), Global Combat Support System (GCSS), and the Global Decision Support System (GDSS); AMC's C2 systems such as the Consolidated Air Mobility Planning System (CAMPS) and Advanced Computer Flight Planning (ACFP) system and the infrastructure for Land Mobile Radio (LMR) systems across AMC providing intra-base command and control for base security, emergency management, flight-line operations/maintenance, and crash response. This program element may include necessary civilian pay expenses required to manage, execute, and deliver MAF C2 capabilities.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834070 / Mobility Command And Control

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	C-17 Aircraft (IF)				- / -	- / 10.817	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40a	AMC COMMAND AND CONTROL SYSTEM				- / -	- / 10.369	- / 10.541	- / 10.619	- / 0.000	- / 10.619
P-40	Total Gross/Weapon System Cost				- / -	- / 21.186	- / 10.541	- / 10.619	- / -	- / 10.619

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

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

Justification:
 PE 0401840F AMC Command and Control System - P-40A

MOBILITY AIR FORCE (MAF) COMMAND AND CONTROL (C2) INFRASTRUCTURE: FY22 funding continues procurement of wired and wireless base network infrastructure equipment to include cabling, routers, bridges, hubs, repeaters and switches to ensure information technology remains current and interoperability with AMC C2 systems is maintained to meet the needs of the warfighter and AMC's worldwide mobility mission.

PE 0401130F C-17 Aircraft (IF) - P-40A
 Roll-On Conference Capsule (ROCC, The second ROCC is being manufactured to deliver in FY22 with Logistics Support Package, bench equipment and training.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834070 / Mobility Command And Control	Aggregated Items Title: C-17 Aircraft (IF)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Roll-On Conference Capsule (ROCC)																				
ROCC	A		-	-	-	-	-	10.817	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Roll-On Conference Capsule (ROCC)			-	-	-	-	-	10.817	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Total			-	-	-	-	-	10.817	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force														Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4							P-1 Line Item Number / Title: 834070 / Mobility Command And Control							Aggregated Items Title: AMC COMMAND AND CONTROL SYSTEM					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
WING LOCAL AREA NETWORK (LAN) - Network Infrastructure	A		-	-	-	-	-	10.369	-	-	10.541	-	-	10.619	-	-	0.000	-	-	10.619
Subtotal: Uncategorized			-	-	-	-	-	10.369	-	-	10.541	-	-	10.619	-	-	0.000	-	-	10.619
Total			-	-	-	-	-	10.369	-	-	10.541	-	-	10.619	-	-	0.000	-	-	10.619

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 0207522F, 0207588F, 0207589F, 0603287F, 0604287F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	366.524	288.549	141.773	101.896	-	101.896	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	366.524	288.549	141.773	101.896	-	101.896	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	366.524	288.549	141.773	101.896	-	101.896	-	-	-	-	-	-

(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:

Description:
The Air Force Protection Security Systems (AFPSS) program provides turnkey procurement, installation, integration and acceptance testing for both base defense physical security systems and Counter Small Unmanned Aircraft Systems (C-sUAS), for delivering modern, innovative, and secure base defense solutions to protect our Nation's critical warfighting assets. Modernization will provide next generation sensor platform, secure cloud computing infrastructure, tactical network with communications to the edge, to provide a more flexible, easier to evolve & operate secure force protection platform.

FY22 funding totals include \$22.228M requested for Direct War and/or Enduring Requirements.

The FY22 funding request was reduced by \$5.406 million to account for the availability of prior year execution balances.

AFPSS encompasses the following PEs:

PE 0101122F - AIR LAUNCHED CRUISE MISSILE (ALCM) SECURITY SYSTEMS includes commodity security equipment including intrusion detection sensors, alarm annunciators, and surveillance systems required for nuclear warhead storage locations.

PE 0101213F - MINUTEMAN SQUADRONS/Minuteman Security Equipment includes commodity security equipment including intrusion detection sensors, alarm annunciators, and surveillance systems required for nuclear warhead storage locations.

PE 0207522F - Airbase Air Defense Systems (ABADS) The program is required to provide initial system capability & continued support at existing, fielded installations to ensure the ability to detect, track, identify and defeat small unmanned aircraft systems and other Rockets, Artillery, and Mortar threats, or other air base threats to ensure capabilities exist and remain effective. The capabilities & support procured protect AF installations, personnel, critical infrastructure at fixed sites, mobile and austere locations, contingency and non-contingency locations worldwide. The program will utilize rapid acquisition authorities and early prototyping initiatives to field advanced technologies to stay ahead of the threat as required.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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: 0207522F, 0207588F, 0207589F, 0603287F, 0604287F
Line Item MDAP/MAIS Code: N/A		
<p>PE 0207588F - Air Base Ground Defense (ABGD) will procure Integrated Base Defense & expeditionary equipment that is required to provide robust force protection capabilities worldwide for: perimeter defense, flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations. This PEC procures advanced technology force multipliers to include: night vision and thermal imagery equipment, counter sniper/battery capabilities, ground weapons, target acquisition radar, interoperable tactical communications, [required C3 and protective standoff equipment for] wheeled tactical [non-tactical], armored [un-armored] vehicles, tactical sensors systems, and unit/personnel protective field equipment.</p> <p>PE 0207589F - Base Physical Security Systems (BPSS) programs include the Integrated Base Defense Security System programs (IBDSS and various acquisition blocks). These activities do the following: reduces the risk to AF personnel; nuclear (PL-1N), and non-nuclear (PL 1-4) assets (weapon systems, aircraft, command & control systems, etc.) and facilities at AF and ANG installations globally. Force Protection BPSS projects support long-term physical security requirements that allow installation commanders and security forces to adapt to, and counter, enduring and emergent threats to high priority assets in accordance with home station and the Aerospace Expeditionary Force concept. BPSS will procure tactical/ expeditionary equipment that is required to provide robust force protection capabilities worldwide of flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations, integrated and interoperable command control & communication (C3) platform & components, and unit/personnel protective field equipment. The Defender Multi-Domain Command, Control and Communications (DMDC3) initiative will rapidly field a platform that integrates the computing power, the means of communication, and the tools for situational awareness to enable the protection of base personnel and base assets.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 0207522F, 0207588F, 0207589F, 0603287F, 0604287F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Air-Launched Cruise Missile (ALCM)				- / -	- / 1.806	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	Minuteman Squadrons				- / -	- / 0.772	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	Airbase Air Defense Systems (ABADS)				- / -	- / 0.000	- / 51.512	- / 27.186	- / 0.000	- / 27.186
P-40a	Air Base Ground Defense				- / -	- / 109.018	- / 50.660	- / 29.898	- / -	- / 29.898
P-40a	Base Physical Security Systems				- / 366.524	- / 98.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	1 / IBDS-2 (Capability Improvement)		A		- / -	- / 78.953	- / 39.601	- / 44.812	- / 0.000	- / 44.812
P-40	Total Gross/Weapon System Cost				- / 366.524	- / 288.549	- / 141.773	- / 101.896	- / -	- / 101.896

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

Justification:
 PE 0101122F AIR LAUNCHED CRUISE MISSILE (ALCM) Security Systems
 There is 0 in FY 2022

PE 0101213F MINUTEMAN SQUADRONS
 There is 0 in FY 2022

PE 0207522F Airbase Air Defense Systems (ABADS)
 FY2022 funding will primarily address the interim support of fielded systems to counter evolving Airbase Air Defense threats such as small Unmanned Aircraft Systems (UAS) and Rockets, Artillery and Mortar. Funding will also be utilized to procure and field systems to additional locations and to further implementation of evolved Command, Control, Communication, Computers, and Intelligence (C4I) systems, improving the performance of the fielded Medusa Command and Control and System of Systems, consistent with the VCSAF approved Capability Development Strategy. Updates may include but not be limited to inclusion of artificial intelligence for operator task automation, closed-loop training system for operator certification and proficiency, track fusion updates, Link 16 capability integration, Advanced Battle Management System (ABMS) inclusion, Universal Command & Control (UC2) implementation, Electronic Warfare upgrades, to include but not limited to Ninja capability within Medusa C2.

PE 0207588F Air Base Ground Defense (ABGD)
 FY2022 funding to AFMC / Air Force Tactical Security Equipment will provide support and procurement for G-BOSS(AF) systems to satisfy Security Forces requirements. Procures system/equipment, interim contractor support (ICS), training, and engineering/software support for 32 systems in PACAF and USAFE. FY2022 funding to IMSC / Log Det will replenish and refresh legacy C2 systems in AFAFRICA, Pacific Defense Initiative (PDI), and War Readiness Material (WRM). Air Base Ground Defense (ABGD) program procures Integrated Base Defense & expeditionary JADC2 capabilities that are required to provide robust force protection capabilities worldwide for: perimeter defense, flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations. FY2022 funding to USAFE / European Defense Initiative (EDI) will procure interoperable JADC2 tactical radio/satellite communications equipment and battlespace/geospatial joint friendly forces tracking systems to support mounted (i.e., armored/unarmored tactical vehicles) and dismounted combat and defensive operations; ground and air tactical sensor/radar systems; electronic countermeasure warfare systems; ground & air kinetic/non-kinetic weapons and support equipment.

PE 0207589F Base Physical Security Systems (BPSS)

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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: 0207522F, 0207588F, 0207589F, 0603287F, 0604287F
Line Item MDAP/MAIS Code: N/A		
FY2022 BPSS funding will support force protection installs of weapon storage areas of nuclear (PL-1N), and non-nuclear (PL 1-4) assets (weapon systems, aircraft, command & control systems, etc.) and facilities (hangars, SCIFs, etc.) at AF and ANG installations globally.		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Aggregated Items Title:** Air-Launched Cruise Missile (ALCM)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
AIR LAUNCHED CRUISE MISSILE (ALCM) SECURITY SYSTEMS	A		-	-	-	-	-	1.806	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Uncategorized			-	-	-	-	-	1.806	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	1.806	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Aggregated Items Title:** Minuteman Squadrons

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Minuteman Security Equipment	A		-	-	-	-	-	0.772	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Uncategorized			-	-	-	-	-	0.772	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	0.772	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Aggregated Items Title:** Airbase Air Defense Systems (ABADS)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AIRBASE AIR DEFENSE SYSTEM (ABADS)																				
ABADS	A		-	-	-	-	-	0.000	-	-	9.108	-	-	27.186	-	-	0.000	-	-	27.186
EDI (OCO)	A		-	-	-	-	-	-	-	-	42.404	-	-	-	-	-	-	-	-	-
Subtotal: AIRBASE AIR DEFENSE SYSTEM (ABADS)			-	-	-	-	-	0.000	-	-	51.512	-	-	27.186	-	-	0.000	-	-	27.186
Total			-	-	-	-	-	0.000	-	-	51.512	-	-	27.186	-	-	0.000	-	-	27.186

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Aggregated Items Title:** Air Base Ground Defense

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Physical Security Systems																				
Air Force Tactical Security Equipment	A		-	-	-	-	-	2.099	-	-	0.122	-	-	5.028	-	-	-	-	-	5.028
Base Security Zone	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Al Dhafra	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EDI	A		-	-	-	-	-	106.919	-	-	-	-	-	18.134	-	-	-	-	-	18.134
Log Det	A		-	-	-	-	-	-	-	-	14.092	-	-	6.736	-	-	-	-	-	6.736
Disaster Relief	A		-	-	-	-	-	-	-	-	36.446	-	-	-	-	-	-	-	-	-
Subtotal: Physical Security Systems			-	-	-	-	-	109.018	-	-	50.660	-	-	29.898	-	-	-	-	-	29.898
Total			-	-	-	-	-	109.018	-	-	50.660	-	-	29.898	-	-	-	-	-	29.898

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

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834130 / Air Force Physical Security System **Aggregated Modification Items Title:** Base Physical Security Systems

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AFPSS4 / Base Physical Security Systems			-	-	114.453	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSUAS2 / C-sUAS			-	-	124.072	-	-	98.000	-	-	-	-	-	-	-	-	-	-	-	
IBDSS-1 / IBDSS-1			-	-	127.999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	366.524	-	-	98.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
AFPSS4 / Base Physical Security Systems	Bases	Capability Improvement
CSUAS2 / C-sUAS	Bases	Capability Improvement
IBDSS-1 / IBDSS-1	Bases	Capability Improvement

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834130 / Air Force Physical Security System	Modification Number / Title: 1 / IBDSS-2

ID Code (A=Service Ready, B=Not Service Ready) : A			MDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	78.953	39.601	44.812	0.000	44.812
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	78.953	39.601	44.812	0.000	44.812
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	78.953	39.601	44.812	0.000	44.812
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-

Description:

Base Physical Security Systems (BPSS) programs include the Integrated Base Defense Security System programs (IBDSS and various acquisition blocks). These activities do the following: reduces the risk to AF personnel; nuclear (PL-1N), and non-nuclear (PL 1-4) assets (weapon systems, aircraft, command & control systems, etc.) and facilities at AF and ANG installations globally. Force Protection BPSS projects support long-term physical security requirements that allow installation commanders and security forces to adapt to, and counter, enduring and emergent threats to high priority assets in accordance with home station and the Aerospace Expeditionary Force concept. BPSS will procure tactical/ expeditionary equipment that is required to provide robust force protection capabilities worldwide of flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations, integrated and interoperable command control & communication (C3) platform & components, and unit/personnel protective field equipment. The Defender Multi-Domain Command, Control and Communications (DMDC3) initiative will rapidly field a platform that integrates the computing power, the means of communication, and the tools for situational awareness to enable the protection of base personnel and base assets. FY22 BPSS funding will support force protection installs of weapon storage areas of nuclear (PL-1N), and non-nuclear (PL 1-4) assets (weapon systems, aircraft, command & control systems, etc.) and facilities (hangars, SCIFs, etc.) at AF and ANG installations globally.

Milestone/Development Status

For Force Protection market research, evaluation and testing. FP testing applies to all available technologies (delay, denial, detection, assessment, communication display, access control and power) which are considered effective for AF physical security use. This program also supports the maintenance and test support at Site C-3, IBDSS System Integration Lab (SIL), and Cold Weather Test Site (CWTS), as annotated in DoD Directive 3200.11, listing the 46th Test Wing (TW) as a Major Range and Test facility, conducting developmental and operational testing as the primary mission.

Continuing COTS and Modified COTS for system equipment as it becomes obsolete.

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Exhibit P-3a, Individual Modification: PB 2022 Air Force						Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4			P-1 Line Item Number / Title: 834130 / Air Force Physical Security System			Modification Number / Title: 1 / IBDSS-2	
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Models of Systems Affected: Bases		Modification Type: Capability Improvement			Related RDT&E PEs: 0603287F, 0604287F		
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement							
<i>Modification Item 1 of 1: IBDSS-2</i>							
B Kits							
Recurring							
IBDSS-2:EQUIPMENT Group B (Active)	- / -	7 / 17.379	4 / 11.693	7 / 13.599	- / -	7 / 13.599	
<i>Subtotal: Recurring</i>	- / -	- / 17.379	- / 11.693	- / 13.599	- / -	- / 13.599	
<i>Subtotal: IBDSS-2</i>	- / -	- / 17.379	- / 11.693	- / 13.599	- / -	- / 13.599	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 17.379	- / 11.693	- / 13.599	- / -	- / 13.599	
Support (All Modification Items)							
A&AS	- / -	- / 11.837	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / 4.602	- / -	- / -	- / -	- / -	
ICS-Labor	- / -	- / 0.283	- / 1.881	- / 1.117	- / -	- / 1.117	
<i>Subtotal: Support</i>	- / -	- / 16.722	- / 1.881	- / 1.117	- / -	- / 1.117	
Installation							
<i>Modification Item 1 of 1: IBDSS-2</i>							
<i>Subtotal: Installation</i>	- / -	7 / 44.852	4 / 26.027	7 / 30.096	- / -	7 / 30.096	
Total							
Total Cost (Procurement + Support + Installation)	-	78.953	39.601	44.812	0.000	44.812	

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Exhibit P-3a, Individual Modification: PB 2022 Air Force											Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4						P-1 Line Item Number / Title: 834130 / Air Force Physical Security System						Modification Number / Title: 1 / IBDSS-2			
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:						
Modification Item 1 of 1: IBDSS-2															
Manufacturer Information															
Manufacturer Name: Commercial Off The Shelf							Manufacturer Location: Multiple								
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 8								
Dates				FY 2020				FY 2021				FY 2022			
Contract Dates				Jan 2020				Jan 2021				Jan 2022			
Delivery Dates				Sep 2020				Sep 2021				Sep 2022			
Installation Information															
Method of Implementation: Contract Field Team															
Installation Cost		Prior Years		FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)			
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -			
FY 2020		- / -		7 / 44.852		- / -		- / -		- / -		- / -			
FY 2021		- / -		- / -		4 / 26.027		- / -		- / -		- / -			
FY 2022		- / -		- / -		- / -		7 / 30.096		- / -		7 / 30.096			
Total		- / -		7 / 44.852		4 / 26.027		7 / 30.096		- / -		7 / 30.096			
Installation Schedule															
	PYS	FY 2020				FY 2021				FY 2022					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	2	3	2	-	2	2	-	-	2	3	2		
Out	0	-	1	3	2	1	2	3	-	-	-	1	1		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834190 / Combat Training Ranges

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207429F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	16.967	264.482	193.185	222.598	-	222.598	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	-	0.000	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	16.967	264.482	193.185	222.598	-	222.598	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	14.730	-	14.730	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	16.967	264.482	193.185	237.328	-	237.328	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	20.910	8.241	2.866	-	2.866	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Combat Training Ranges (CTR) program procures electronic telecommunication and instrumentation equipment and threat systems for training ranges worldwide to satisfy air combat and electronic warfare (EW) training capability requirements. It also procures range scoring systems and replacement equipment for electronics no longer logistically supportable. Funds may be used to address production Diminishing Manufacturing Sources and Material Shortage (DMSMS)/Obsolescence issues through studies, bridge buys, life of type buys, supplier parts replacement and qualification activities to preserve future production capabilities and capacities.

JOINT THREAT EMITTER (JTE): JTE is designed to train aircrews to survive in a combat environment against Surface-to-Air Missile (SAM) and Air Defense Artillery (ADA) threats. The JTE simulates a range of threat signals, in multiple emitter kits, which interact with the aircraft radar warning receiver and electronic countermeasure system to provide realistic EW training environments for aircrew. The JTE leverages Commercial-Off-The Shelf (COTS) where possible to provide digital signal generation and feedback across its range of threats. The JTE system uses a Command-and-Control Unit (C2U) to operate a Threat Emitter Unit (TEU) contributing to a realistic threat environment for 4th and 5th Generation aircraft. Funding will also be used to purchase services applicable to the acquisition, site activation and implementation of the ground system including range site surveys, installation and training. The program procures new systems, retrofits fielded legacy JTE systems, and procures modifications for obsolete components of the fielded JTE fleet to extend their serviceable life.

ADVANCED RADAR THREAT SYSTEM VARIANT 1 (ARTS-V1): The ARTS-V1 program will procure long-range strategic SAM threat training systems. ARTS-V1 is designed to be used at Department of Defense (DoD) training ranges for aircrew training and tactics development to increase combat effectiveness and aircrew survivability by training aircrews to engage or defend against an advanced SAM threat before encountering it in actual combat. While various aircraft platforms may train against ARTS-V1, the focus of the program is to deliver realistic threat replication meant to stress 5th Generation aircraft capabilities.

ADVANCED RADAR THREAT SYSTEM VARIANT 2 (ARTS-V2): The ARTS-V2 program will procure threat training systems based on an advanced tactical, mobile, short/medium range foreign fielded SAM radar threat system. ARTS-V2 is designed to be used at Department of Defense (DoD) training ranges for aircrew training and tactics development to increase combat effectiveness and aircrew survivability by training aircrews to engage or defend against an advanced SAM threat before encountering it in actual combat. Various aircraft platforms will train against ARTS-V2, but the focus of the program is on creation of realistic threats meant to stress 5th Generation aircraft capabilities.

RANGE EQUIPMENT: This effort delivers range infrastructure and equipment in order to monitor and control an extended, realistic target environment for simulated ordnance delivery and provide scoring, feedback and debriefing to the aircrew. This effort includes, but is not limited to, the Joint Advanced Weapon Scoring System (JAWSS) program, which consists of Navy-developed scoring and feedback systems

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834190 / Combat Training Ranges
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0207429F	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>that provide weapon impact and laser spot scoring on bombing and gunnery ranges, EW threat subsystems such as noise and spoofing jammers and ground based laser countermeasures and directed lasers as well as radar and detection systems, data link connectivity, target shells, simulations and concealments, integrated air combat training instrumentation for range-less and tethered ground systems, and Range Safety Systems (RSS).</p> <p>RANGE COMMUNICATIONS: The Range Infrastructure Modernization Communication (RIMCOMM) program provides communication systems to connect various air defense threat radar systems on Air Force ranges to simulate an Integrated Air Defense System (IADS) and to provide blue force command and control for range operations. Infrastructure modernization includes replacing obsolete equipment, establishing a common infrastructure to support War Rooms and a future Live Mission Operations Capability (LMOC) enabling improved mission debriefs and Live, Virtual, Constructive (LVC) aircrew training, and standardization of all training range communications systems to support LVC training missions. This program focuses on procurement of range communication infrastructure equipment, including fiber optic cabling, microwave, Ultra High Frequency (UHF), and Very High Frequency (VHF) radios and antennas, data links and repeater stations, power subsystems, control systems, Air Combat Training System (ACTS) ground systems, and cryptological equipment for unclassified and secure communications for all Combat Training Ranges, in addition to studies, analysis, and integration efforts for range command and control, LVC training, and enhanced debrief capabilities.</p> <p>LIVE MISSION OPERATIONS CAPABILITY (LMOC): The LMOC program will regionalize and standardize training airspace, threat systems, and control centers to better challenge 5th Generation aircraft and aircrew and provide comprehensive training support for all warfighters. It will provide a node-based enterprise that integrates all range system capabilities, including pre/post mission coordination, in a multi-level secure environment to enable blended live-synthetic training for combat and combat support units including F-35. It will address three combat training capability requirements: build and display an integrated surface and air picture; manage training; and enable LVC training operations. LMOC will field in three strategic steps, 1) deliver a common hardware software platform called "WarRoom to each training location, 2) Link each site via a Live Mission Operations Network (LMON) to the LMOC System Integration Lab (SIL) which is the only DoD run software factory dedicated to Operational Test and Training Infrastructure (OTTI), 3) Field a multi-level security (MLS) architecture that enables LMOC to connect all live training systems, co-locate training data in one place, and allow access at the individual security classification level of each user.</p> <p>MODERNIZATION SYSTEMS: This program procures modifications for multiple legacy Range Threat Systems (RTS) to extend their serviceable life. RTS efforts include Multiple Threat Emitter System (MUTES), Miniature Multiple Threat Emitter System (Mini-MUTES), Modular Threat Emitter (MTE) system, Tactical Radar Threat Generator (TRTG) system, Band Simulator (Band Sim), Unmanned Modular Threat Emitter (UMTE) system, Joint Threat Emitter (JTE) system throughout the combat training range enterprise. The program may procure depot stand-up tools such as software support workstations. Modernization Systems is currently pursuing replacement of obsolete Band Sim Control Vans with modern/sustainable digital shelters.</p> <p>COMMON ELECTRONIC ATTACK RECEIVER (CEAR MODS): The CEAR MODS program replaces the obsolete Electronic Attack Receivers (EAR) on legacy threat systems such as the Unmanned Threat Emitter (UMTE), the Joint Threat Emitter (JTE), and the Miniature Multiple Threat Emitter System (Mini-MUTES). The CEAR MODS provide real-time and recorded electronic warfare feedback to Combat Air Force (CAF) aircrews, improving their survivability in anti-access/area denial combat environments.</p> <p>Funding for this exhibit contained in PE 0207429F Combat Training Ranges.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834190 / Combat Training Ranges

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0207429F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Advanced Radar Threat System V1	P-5a	B		- / -	- / 0.000	- / 14.730	- / 96.793	- / -	- / 96.793
P-5	Advanced Radar Threat System V2	P-5a	B		- / -	- / 23.762	- / 102.690	- / 119.299	- / -	- / 119.299
P-40a	CEAR MODS				- / 7.936	- / 0.984	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-5	Modernization Systems		A		- / -	- / 0.000	- / 5.768	- / 5.211	- / -	- / 5.211
P-40a	JTE				- / 9.031	- / 1.735	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-5	JTE		A		- / -	5 / 30.812	- / 2.909	- / 1.295	- / -	- / 1.295
P-40a	RIMCOMM AND RANGE EQUIP				- / -	- / 207.189	- / 67.088	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 16.967	- / 264.482	- / 193.185	- / 222.598	- / -	- / 222.598

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

Justification:

ARTS-V1: FY22 funding supports but is not limited to the procurement of two ARTS-V1 threat systems and radar cross section shells.

ARTS-V2: FY22 funding procures seven ARTS-V2 threat systems (which includes the radar cross section shells).

MODERNIZATION SYSTEMS: FY22 funding will replace one obsolete Band Sim control shelter.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force						Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4			P-1 Line Item Number / Title: 834190 / Combat Training Ranges			Item Number / Title [DODIC]: Advanced Radar Threat System V1		
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:		
Resource Summary			Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			-	0.000	14.730	96.793	-	96.793
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			-	0.000	14.730	96.793	-	96.793
Plus CY Advance Procurement (\$ in Millions)			-	-	-	14.730	-	14.730
Total Obligation Authority (\$ in Millions)			-	0.000	14.730	111.523	-	111.523
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)			-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Advanced Radar Threat System V1 Cost																		
Recurring Cost																		
Equipment-Radar System ^(†)	-	-	-	-	-	0.000	-	-	-	35.725	2	71.450	-	-	-	35.725	2	71.450
Equipment -Surrogate Shell ^(†)	-	-	-	-	-	-	-	-	-	2.500	2	5.000	-	-	-	2.500	2	5.000
Equipment- Software Support Station	-	-	-	-	-	-	-	-	-	3.405	1	3.405	-	-	-	3.405	1	3.405
Advance Procurement	-	-	-	-	-	-	-	-	14.730	-	-	-	-	-	-	-	-	-
Advance Procurement Payback	-	-	-	-	-	-	-	-	-	-	-	14.730	-	-	-	-	-	14.730
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	14.730	-	-	94.585	-	-	-	-	-	94.585
<i>Subtotal: Hardware - Advanced Radar Threat System V1 Cost</i>	-	-	-	-	-	0.000	-	-	14.730	-	-	94.585	-	-	-	-	-	94.585
Support - Advanced Radar Threat System V1 Cost																		
ARTS V1 PMA Other Government Costs	-	-	-	-	-	-	-	-	-	-	-	2.000	-	-	-	-	-	2.000
ARTS V1 PMA Contractor Services	-	-	-	-	-	-	-	-	-	-	-	0.208	-	-	-	-	-	0.208
<i>Subtotal: Support - Advanced Radar Threat System V1 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.208	-	-	-	-	-	2.208
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	14.730	-	-	96.793	-	-	-	-	-	96.793

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834190 / Combat Training Ranges	Item Number / Title [DODIC]: Advanced Radar Threat System V1
ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	
Remarks: FY21 and FY22 funding is being reprogrammed to advance procurement. The \$14.73M FY21 "Advance Procurement" funding will support the July advance procurement award for the FY22 buy of two systems. The \$14.73M FY22 "Advance Procurement payback" funding is credit for the FY22 buy. (t) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834190 / Combat Training Ranges	Item Number / Title [DODIC]: Advanced Radar Threat System V1
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Equipment-Radar System		2022	TBD / TBD	C / CPIF	AFLCMC Hill AFB	Dec 2021	Jan 2024	2	35.725	N	May 2021	
Equipment -Surrogate Shell		2022	TBD / TBD	C / CPIF	AFLCMC Hill AFB	Dec 2021	Jan 2024	2	2.500	N	May 2021	
Advance Procurement												
Equipment-Radar System: Phase Shifters		2022	TBD / TBD	C / CPIF	AFLCMC Hill AFB	Jul 2021	Jan 2024	2	6.182	N	May 2021	
Equipment-Radar System: Traveling Wave Tube Assembly		2022	TBD / TBD	C / CPIF	AFLCMC Hill AFB	Jul 2021	Jan 2024	2	1.183	N	May 2021	

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834190 / Combat Training Ranges	Item Number / Title [DODIC]: Advanced Radar Threat System V2

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	23.762	102.690	119.299	-	119.299
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	23.762	102.690	119.299	-	119.299
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	23.762	102.690	119.299	-	119.299

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	2.866	-	2.866
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Advanced Radar Threat System V2 Cost																		
Recurring Cost																		
Equipment ^(†)	-	-	-	20.654	1	20.654	16.260	6	97.560	16.244	7	113.708	-	-	-	16.244	7	113.708
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	20.654	-	-	97.560	-	-	113.708	-	-	-	-	-	113.708
<i>Subtotal: Hardware - Advanced Radar Threat System V2 Cost</i>	-	-	-	-	-	20.654	-	-	97.560	-	-	113.708	-	-	-	-	-	113.708
Support - Advanced Radar Threat System V2 Cost																		
ARTS V2 PMA	-	-	-	-	-	3.108	-	-	5.130	-	-	5.591	-	-	-	-	-	5.591
<i>Subtotal: Support - Advanced Radar Threat System V2 Cost</i>	-	-	-	-	-	3.108	-	-	5.130	-	-	5.591	-	-	-	-	-	5.591
Gross/Weapon System Cost	-	-	-	-	-	23.762	-	-	102.690	-	-	119.299	-	-	-	-	-	119.299

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834190 / Combat Training Ranges	Item Number / Title [DODIC]: Advanced Radar Threat System V2
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Equipment		2020	Lockheed Martin / Grand Prairie, TX	C / FFP	AFLCMC Hill AFB	May 2020	May 2022	1	20.654	N	Mar 2020	
Equipment		2021	Lockheed Martin / Grand Prairie, TX	C / FFP	AFLCMC Hill AFB	May 2021	May 2023	6	16.260	N	Mar 2021	
Equipment		2022	Lockheed Martin / Grand Prairie, TX	C / FFP	AFLCMC Hill AFB	May 2022	May 2024	7	16.244	N	Mar 2022	

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834190 / Combat Training Ranges	Aggregated Modification Items Title: CEAR MODS
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Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
CTR02 / CEAR UMTE Mod			-	-	7.936	-	-	0.984	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	7.936	-	-	0.984	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
CTR02 / CEAR UMTE Mod	CombatTrainingRange	Capability Improvement

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834190 / Combat Training Ranges	Item Number / Title [DODIC]: Modernization Systems

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	5.768	5.211	-	5.211
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	5.768	5.211	-	5.211
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	5.768	5.211	-	5.211

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - DTR Cost																		
Recurring Cost																		
Digital Threat Relevancy	-	-	-	-	-	-	5.599	1	5.599	4.500	1	4.500	-	-	-	4.500	1	4.500
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	5.599	-	-	4.500	-	-	-	-	-	4.500
<i>Subtotal: Hardware - DTR Cost</i>	-	-	-	-	-	-	-	-	5.599	-	-	4.500	-	-	-	-	-	4.500
Support - DTR Cost																		
Digital Threat Relevancy PMA - Contractor Services	-	-	-	-	-	0.000	-	-	0.169	-	-	0.711	-	-	-	-	-	0.711
<i>Subtotal: Support - DTR Cost</i>	-	-	-	-	-	0.000	-	-	0.169	-	-	0.711	-	-	-	-	-	0.711
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	5.768	-	-	5.211	-	-	-	-	-	5.211

Remarks:

DTR procurement funds support replacement of up to a maximum of 4 Band Sim Control Shelters each fiscal year depending on funds available. Unit cost decreased from FY21 to FY22 due to fewer included items such as Radar Emulator and Technical Data Package (TDP).

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834190 / Combat Training Ranges **Aggregated Modification Items Title:** JTE

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
CTR01 / Combat Training Ranges Joint Threat Emitter			-	-	9.031	-	-	1.735	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	9.031	-	-	1.735	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
CTR01 / Combat Training Ranges Joint Threat Emitter	JointThreatEmitter	Service Life Extension

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834190 / Combat Training Ranges	Item Number / Title [DODIC]: JTE

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	5	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	30.812	2.909	1.295	-	1.295
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	30.812	2.909	1.295	-	1.295
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	30.812	2.909	1.295	-	1.295

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

Initial Spares (<i>\$ in Millions</i>)	-	20.910	8.241	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	6.162	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - JTE Cost																		
Recurring Cost																		
JTE Wideband Threat Emitter Unit (WTEU)	-	-	-	5.370	5	26.850	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	26.850	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - JTE Cost</i>	-	-	-	-	-	26.850	-	-	-	-	-	-	-	-	-	-	-	-
Support - JTE Cost																		
PMA Contractor Services	-	-	-	-	-	1.878	-	-	1.880	-	-	1.285	-	-	-	-	-	1.285
PMA Other Government Costs	-	-	-	-	-	0.010	-	-	0.010	-	-	0.010	-	-	-	-	-	0.010
Support	-	-	-	-	-	2.074	-	-	1.019	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - JTE Cost</i>	-	-	-	-	-	3.962	-	-	2.909	-	-	1.295	-	-	-	-	-	1.295
Gross/Weapon System Cost	-	-	-	6.162	5	30.812	-	-	2.909	-	-	1.295	-	-	-	-	-	1.295

Remarks:

- Support includes but is not limited to JTE end item engineering change proposals, training, and travel

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834190 / Combat Training Ranges **Aggregated Items Title:** RIMCOMM AND RANGE EQUIP

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
RIMCOMM																				
RIMCOMM Projects	A		-	-	-	-	-	83.151	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: RIMCOMM			-	-	-	-	-	83.151	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Range Equipment																				
Range Equipment Projects	A		-	-	-	-	-	52.638	-	-	67.088	-	-	0.000	-	-	0.000	-	-	0.000
Radar Signal Emulators	A		-	-	-	20.900	2	41.800	-	-	-	-	-	-	-	-	-	-	-	-
Mobile Radar System	A		-	-	-	29.600	1	29.600	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Range Equipment			-	-	-	-	-	124.038	-	-	67.088	-	-	0.000	-	-	0.000	-	-	0.000
Total			-	-	-	-	-	207.189	-	-	67.088	-	-	0.000	-	-	0.000	-	-	0.000

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

Remarks:

- Range Equipment funding supports capabilities for 5th Generation aircraft training and readiness, sustainment and modernization of legacy and Operational Training Infrastructure Investments (i.e. Link-16 radios, communication pipes, etc.) and increased requirement to support advanced systems. Funding supports Live Mission Operations Capability (LMOC) which delivers a common hardware and software platform called "WarRoom" to each training location, links each site via a Live Mission Operations Network (LMON) to the LMOC System Integration Lab (SIL) which is the only DoD run software factor dedicated to Operational Test and Training Infrastructure (OTTI) and field a Multi-Level Security (MLS) architecture that enables LMOC to connect all live training systems, co-locate training data in one place, and allow access at the individual security classification level of each user.
- Radar Signal Emulators (RSE) will field at Joint Pacific Alaska Range Complex.
- Mobile Radar System (MRS) will field at Nevada Test and Training Range.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2022 Air Force							Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects							P-1 Line Item Number / Title: 834190 / Combat Training Ranges					
Program Elements for Code B Items: 0207429F							Other Related Program Elements: N/A					
Line Item MDAP/MAIS Code: N/A												

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	14.730	-	14.730	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	14.730	-	14.730	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	14.730	-	14.730	-	-	-	-	-	-

Description:

The Advanced Radar Threat System Variant 1 (ARTS-V1) program will procure long-range strategic Surface-to-Air Missile (SAM) threat training systems. ARTS-V1 is designed to be used at Department of Defense (DoD) training ranges for aircrew training and tactics development to increase combat effectiveness and aircrew survivability by training aircrews to engage or defend against an advanced SAM threat before encountering it in actual combat. While various aircraft platforms may train against ARTS-V1, the focus of the program is to deliver realistic threat replication meant to stress 5th Generation aircraft capabilities.

Advance Procurement funding will procure long lead items including but not limited to Phase Shifters and Traveling Wave Tube Assembly to protect the delivery schedule. The purchase of Advance Procurement items will save the program a total of 12 months for delivery of the systems.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects	P-1 Line Item Number / Title: 834190 / Combat Training Ranges
--	---

Program Elements for Code B Items: 0207429F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	Advanced Radar Threat System V1			- / -	- / -	- / -	- / 14.730	- / -	- / 14.730
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / 14.730	- / -	- / 14.730

*Title represents the P-10 Title for Advance Procurement.

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

Justification:
 FY22 Advance Procurement funding procures long lead, non end item components for two ARTS-V1 systems procured in FY23. Funding requested procures long lead items including but not limited to Phase Shifters, and Traveling Wave Tube Assembly to protect the Lot 2 delivery schedule.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2022 Air Force					Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4			P-1 Line Item Number / Title: 834190 / Combat Training Ranges			P-5 Number / Title: Advanced Radar Threat System V1	
First System (2022) Award Date: December 2021		First System (2022) Completion Date: December 2023			Interval Between Systems: 4 Months		
Advanced Radar Threat System V1		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2020 <i>(Each)</i>	FY 2021 <i>(Each)</i>	FY 2022 <i>(Each)</i>	
Quantity		24	-	-	-	-	
Cost Elements		When Required <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2020 <i>(\$ M)</i>	FY 2021 <i>(\$ M)</i>	FY 2022 <i>(\$ M)</i>	
CFE							
Equipment-Radar System: Phase Shifters (†)		14	-	-	-	12.364	
Equipment-Radar System: Traveling Wave Tube Assembly (†)		14	-	-	-	2.366	
<i>Total: CFE</i>			-	-	-	14.730	
Total Advance Procurement/Obligation Authority			-	-	-	14.730	

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2022 Air Force						Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4			P-1 Line Item Number / Title: 834190 / Combat Training Ranges			P-5 Number / Title: Advanced Radar Threat System V1	
FY 2022							
Cost Elements	QPA (Each)	Production Leadtime (Months)	Unit Cost (\$ M)	Contract Forecast Date	2022 Qty (Each)	For FY	Total Cost Request (\$ M)
CFE							
Equipment-Radar System: Phase Shifters ^(†)	1	24	6.182	Jul 2021	2		12.364
Equipment-Radar System: Traveling Wave Tube Assembly ^(†)	1	18	1.183	Jul 2021	2		2.366
<i>Total: CFE</i>							14.730
Total Advance Procurement/Obligation Authority							14.730

Description:
The Advanced Radar Threat System Variant 1 (ARTS-V1) program will procure long-range strategic Surface-to-Air Missile (SAM) threat training systems. ARTS-V1 is designed to be used at Department of Defense (DoD) training ranges for aircrew training and tactics development to increase combat effectiveness and aircrew survivability by training aircrews to engage or defend against an advanced SAM threat before encountering it in actual combat. While various aircraft platforms may train against ARTS-V1, the focus of the program is to deliver realistic threat replication meant to stress 5th Generation aircraft capabilities.

Advance Procurement funding will procure long lead items including but not limited to Phase Shifters, and Traveling Wave Tube Assembly to protect the Lot 2 delivery schedule.

^(†) indicates the presence of Contract Data presented in the associated P-5 Item's P-5a exhibit.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834210 / Minimum Essential Emergency Comm N

ID Code (A=Service Ready, B=Not Service Ready): 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	140.331	132.648	21.664	77.119	-	77.119	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	140.331	132.648	21.664	77.119	-	77.119	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	140.331	132.648	21.664	77.119	-	77.119	-	-	-	-	-	-

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

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

Description:

The Minimum Essential Emergency Communications Network (MEECN) portfolio modernizes the systems necessary to effectively provide assured communications connectivity between the President and the strategic deterrence forces in stressed environments.

Global Aircrew Strategic Network Terminal (Global ASNT) replaces inadequate, unsustainable strategic communications equipment at bomber, tanker and reconnaissance Wing Command Posts (WCPs), Nuclear Task Forces and Munitions Support Squadrons (MUNSS) and for Mobile Support Teams (MSTs). Global ASNT is a ground-based system that will provide survivable, secure communication paths to receive Emergency Action Messages (EAMs), Force Management messages, and Force Direction messages and disseminate them to bomber, tanker, and reconnaissance aircrews.

Global ASNT is being fielded in separate capability increments.

Global ASNT Inc 1 fields required Extremely High Frequency/Advanced Extremely High Frequency (EHF/AEHF) capabilities and replaces inadequate, unsustainable strategic mobile and fixed-site Single Channel Anti-jam Man-Portable (SCAMP) terminals and Secure, Mobile, Anti-Jam, Reliable, Tactical - Terminal (SMART-T) equipment. FY15 was the first year of Increment 1 procurement funding to support pre-production activities. The majority of pre-production support activities were conducted in FY17 and FY18 in advance of the Milestone C decision in 3QFY19. Fielding of Global ASNT Inc 1 terminals will commence in 3Qtr FY21.

RDT&E funding for this exhibit is contained in PE 0303131F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834210 / Minimum Essential Emergency Comm N

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / GASNTi1 (Capability Improvement)		A		- / 140.331	- / 132.648	- / 21.664	- / 77.119	- / 0.000	- / 77.119
P-40	Total Gross/Weapon System Cost				- / 140.331	- / 132.648	- / 21.664	- / 77.119	- / -	- / 77.119

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

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

Justification:
 Global ASNT Increment 1 FY 2020 funds support production activities including preparation and planning for depot standup, engineering activities, schedule preparation and planning, production configuration control, production roadmap activities, procurement of 42 production kits, site installations, and initiate interim contractor support (ICS).
 FY2020 funds also include purchases of Electronic Security Systems (ESS) to provide Physical Security Level 3 (PL-3) protection for Global ASNT antennas. Global ASNT is replacing a PL-4 asset.
 FY2021 funds support installation, ICS, and Program Office activities including planning for depot standup, engineering activities, schedule preparation and planning, and production configuration and control.
 FY2022 funds will support installation, ICS, and Program Office activities including planning for depot standup, engineering activities, schedule preparation and planning, and production configuration and control.
 This program has overarching diminishing manufacturing sources (DMS) requirements and as such may need to use procurement funding to address these requirements.

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834210 / Minimum Essential Emergency Comm N	Modification Number / Title: 1 / GASNTi1

ID Code (A=Service Ready, B=Not Service Ready) : A			MDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	140.331	132.648	21.664	77.119	0.000	77.119
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	140.331	132.648	21.664	77.119	0.000	77.119
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	140.331	132.648	21.664	77.119	0.000	77.119
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-

Description:

The Minimum Essential Emergency Communications Network (MEECN) portfolio modernizes the systems necessary to effectively provide assured communications connectivity between the President and the strategic deterrence forces in stressed environments.

Global Aircrew Strategic Network Terminal (Global ASNT) replaces inadequate, unsustainable strategic communications equipment at bomber, tanker and reconnaissance Wing Command Posts (WCPs), Nuclear Task Forces and Munitions Support Squadrons (MUNSS) and for Mobile Support Teams (MSTs).

Global ASNT is a ground-based system that will provide survivable, secure communication paths to receive Emergency Action Messages (EAMs), Force Management messages, and Force Direction messages and disseminate them to bomber, tanker, and reconnaissance aircrews.

Global ASNT is being fielded in separate capability increments.

Global ASNT Inc 1 fields required Extremely High Frequency/Advanced Extremely High Frequency (EHF/AEHF) capabilities and replaces inadequate, unsustainable strategic mobile and fixed-site Single Channel Anti-jam Man-Portable (SCAMP) terminals and Secure, Mobile, Anti-Jam, Reliable, Tactical - Terminal (SMART-T) equipment. FY15 was the first year of Increment 1 procurement funding to support pre-production activities. The majority of pre-production support activities were conducted in FY17 and FY18 in advance of the Milestone C decision in 3QFY19. Fielding of Global ASNT Inc 1 terminals will commence in 3Qtr FY21. This will complete the total requirement of 90 terminals for Global ASNT Inc 1.

RDT&E funding for this exhibit is contained in PE 0303131F.

Global ASNT Increment 1 FY 2020 funds support production activities including preparation and planning for depot standup, engineering activities, schedule preparation and planning, production configuration control, production roadmap activities, procurement of 42 production kits, site installations, and initiate interim contractor support (ICS).

FY2020 funds also include purchases of Electronic Security Systems (ESS) to provide Physical Security Level 3 (PL-3) protection for Global ASNT antennas. Global ASNT is replacing a PL-4 asset.

FY2021 funds support installation, ICS, and Program Office activities including planning for depot standup, engineering activities, schedule preparation and planning, and production configuration and control.

FY2022 funds will support installation, ICS, and Program Office activities including planning for depot standup, engineering activities, schedule preparation and planning, and production configuration and control.

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834210 / Minimum Essential Emergency Comm N	Modification Number / Title: 1 / GASNTi1
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<p>This program has overarching diminishing manufacturing sources (DMS) requirements and as such may need to use procurement funding to address these requirements.</p> <p>Milestone/Development Status</p> <p>Development complete. Full Rate Production in process. Installation schedule to begin in 3rdQtr FY21.</p>		

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Exhibit P-3a, Individual Modification: PB 2022 Air Force					Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4			P-1 Line Item Number / Title: 834210 / Minimum Essential Emergency Comm N		Modification Number / Title: 1 / GASNTi1	
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:		
Models of Systems Affected: GASNTi1		Modification Type: Capability Improvement			Related RDT&E PEs:	
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement						
Modification Item 1 of 2: GASNTi1 Fixed						
A Kits						
Recurring						
GASNTi1 Fixed:INSTALL KITS Group A (Active)						
	- / 0.554	- / 3.000	- / -	10 / 14.359	- / -	10 / 14.359
Subtotal: Recurring						
	- / 0.554	- / 3.000	- / -	- / 14.359	- / -	- / 14.359
B Kits						
Recurring						
GASNTi1 Fixed:EQUIPMENT Group B (Active)						
	24 / 68.274	19 / 55.656	- / -	- / -	- / -	- / -
Subtotal: Recurring						
	- / 68.274	- / 55.656	- / -	- / -	- / -	- / -
Subtotal: GASNTi1 Fixed						
	- / 68.828	- / 58.656	- / -	- / 14.359	- / -	- / 14.359
Modification Item 2 of 2: GASNTi1 Mobile						
B Kits						
Recurring						
GASNTi1 Mobile:EQUIPMENT Group B (Active)						
	24 / 68.275	23 / 67.373	- / -	- / -	- / -	- / -
Subtotal: Recurring						
	- / 68.275	- / 67.373	- / -	- / -	- / -	- / -
Subtotal: GASNTi1 Mobile						
	- / 68.275	- / 67.373	- / -	- / -	- / -	- / -
Subtotal: Procurement, All Modification Items						
	- / 137.103	- / 126.029	- / -	- / 14.359	- / -	- / 14.359
Support (All Modification Items)						
A&AS						
	- / 2.308	- / 4.265	- / 3.106	- / 4.180	- / -	- / 4.180
ICS-Labor						
	- / 0.920	- / 2.354	- / 13.791	- / 50.408	- / -	- / 50.408
Subtotal: Support						
	- / 3.228	- / 6.619	- / 16.897	- / 54.588	- / -	- / 54.588
Installation						
Modification Item 1 of 2: GASNTi1 Fixed						
	- / -	- / -	10 / 2.270	18 / 4.086	- / -	18 / 4.086
Modification Item 2 of 2: GASNTi1 Mobile						
	- / -	- / -	11 / 2.497	18 / 4.086	- / -	18 / 4.086
Subtotal: Installation						
	- / -	- / -	21 / 4.767	36 / 8.172	- / -	36 / 8.172
Total						
Total Cost (Procurement + Support + Installation)						
	140.331	132.648	21.664	77.119	0.000	77.119

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Exhibit P-3a, Individual Modification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834210 / Minimum Essential Emergency Comm N	Modification Number / Title: 1 / GASNTi1
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 2: GASNTi1 Fixed

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Largo, FL		
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 16		
Dates	FY 2020	FY 2021	FY 2022
Contract Dates	Apr 2020		
Delivery Dates	Aug 2021		

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	7 / 1.589	9 / 2.043	- / -	9 / 2.043
FY 2020	- / -	- / -	3 / 0.681	9 / 2.043	- / -	9 / 2.043
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	10 / 2.270	18 / 4.086	- / -	18 / 4.086

Installation Schedule

	PYS	FY 2020				FY 2021				FY 2022			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
In	0	-	-	-	-	-	3	3	4	5	4	5	4
Out	0	-	-	-	-	-	3	3	4	5	4	5	4

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Exhibit P-3a, Individual Modification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834210 / Minimum Essential Emergency Comm N	Modification Number / Title: 1 / GASNTi1
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Modification Item 2 of 2: GASNTi1 Mobile

Manufacturer Information

Manufacturer Name: Raytheon		Manufacturer Location: Largo, FL	
Administrative Leadtime (in Months): 6		Production Leadtime (in Months): 16	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates	Apr 2020		
Delivery Dates	Aug 2021		

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	6 / 1.362	9 / 2.043	- / -	9 / 2.043
FY 2020	- / -	- / -	5 / 1.135	9 / 2.043	- / -	9 / 2.043
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	11 / 2.497	18 / 4.086	- / -	18 / 4.086

Installation Schedule

	PYS	FY 2020				FY 2021				FY 2022			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
In	0	-	-	-	-	-	-	6	5	4	5	4	5
Out	0	-	-	-	-	-	-	6	5	4	5	4	5

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

P-1 Line Item Number / Title:
834240 / Wide Area Surveillance (WAS)

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604445F **Other Related Program Elements:** 0604445F

Line Item MDAP/MAIS Code: 519

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	136.837	42.118	47.538	38.794	-	38.794	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	136.837	42.118	47.538	38.794	-	38.794	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	136.837	42.118	47.538	38.794	-	38.794	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	3.007	1.904	0.013	-	0.013	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Wide Area Surveillance (WAS) program provides homeland defense sensors to North American Aerospace Defense Command/US Northern Command (NORAD/USNORTHCOM) for the National Capital Region (NCR).

WAS consists of two advanced sensor systems, the Stateside Affordable Radar System (STARS) and Scorpion, incorporated into a single WAS System. Based upon existing technological capabilities, WAS detects/tracks low, slow and other asymmetrical threats in the airspace and meets the user needs of sensing stressing airborne targets in complex environments with affordable sensors. The sensor outputs are incorporated into the Battle Control Systems-Fixed (BCS-F) air picture and utilized as the NORAD/USNORTHCOM Command and Control (C2) air surveillance system of record.

The WAS strategy is an acquisition approach for full capability to produce and field highly capable and sustainable advanced sensors in the NCR. In FY22, the Air Force plans to award and exercise WAS Production and Interim Contractor Support (ICS) Contract options for both STARS and Scorpion systems, as well as perform a technical refresh of fielded sites. In FY22, the Air Force continues to procure initial spares, replenishment spares, and repair parts.

Funding for this exhibit is contained in PE 0604445F, Wide Area Surveillance.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D

Some aspects of the WAS program are classified and information will be provided on a need-to-know basis.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834240 / Wide Area Surveillance (WAS)

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604445F **Other Related Program Elements:** 0604445F

Line Item MDAP/MAIS Code: 519

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Wide Area Surveillance	P-5a, P-21	B		- / 136.837	- / 42.118	- / 47.538	- / 38.794	- / -	- / 38.794
P-40	Total Gross/Weapon System Cost				- / 136.837	- / 42.118	- / 47.538	- / 38.794	- / -	- / 38.794

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

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

Justification:
 Will include but are not limited to:
 - FY22 funds will procure, produce and field operational Scorpion sensors, and procure and maintain system infrastructure such as a system integrated lab and system health and monitoring centralized data processing capability to support operations and support activities in accordance with NORAD/USNORTHCOM. FY22 will also fund the technical refresh of fielded sites.
 - FY22 funds will also support, but are not limited to, hardware and software upgrades to seamlessly integrate new and emerging sensors, data, and technologies, such as updated configurations of existing sites to match the modified baseline, and hardware to maintain the mandated cyber security posture and Authority to Operate (ATO) requirements. Funds will procure end items and spares that do not qualify for Centralized Asset Management (CAM) funding.
 - FY22 funds will include program management administration and direct mission support providing management, engineering, cost and technical support for the program office.
 - FY22 funds will support potential diminishing manufacturing sources, material shortages, obsolescence solutions, sparing, and recapitalization to include, if optimal, life of type buys or bridge buys limited to the program of record quantity.
 - Some key components of each WAS site require significant lead time items.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4		P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS)
		Item Number / Title [DODIC]: Wide Area Surveillance

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	136.837	42.118	47.538	38.794	-	38.794
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	136.837	42.118	47.538	38.794	-	38.794
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	136.837	42.118	47.538	38.794	-	38.794

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

Initial Spares (\$ in Millions)	-	3.007	1.904	0.013	-	0.013
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Wide Area Surveillance Cost																		
Recurring Cost																		
Prime ^(†) (1)	5.672	19	107.774	-	-	38.578	1.873	15	28.098	1.818	15	27.269	-	-	-	1.818	15	27.269
<i>Subtotal: Recurring Cost</i>	-	-	107.774	-	-	38.578	-	-	28.098	-	-	27.269	-	-	-	-	-	27.269
Non Recurring Cost																		
Prime ICS	-	-	-	-	-	0.000	-	-	7.841	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.000	-	-	7.841	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - Wide Area Surveillance Cost</i>	-	-	107.774	-	-	38.578	-	-	35.939	-	-	27.269	-	-	-	-	-	27.269
Support - Wide Area Surveillance Cost																		
DMS Support	-	-	7.003	-	-	1.795	-	-	2.953	-	-	3.935	-	-	-	-	-	3.935
PMA Contractor Services	-	-	22.060	-	-	1.745	-	-	8.646	-	-	7.590	-	-	-	-	-	7.590
<i>Subtotal: Support - Wide Area Surveillance Cost</i>	-	-	29.063	-	-	3.540	-	-	11.599	-	-	11.525	-	-	-	-	-	11.525
Gross/Weapon System Cost	-	-	136.837	-	-	42.118	-	-	47.538	-	-	38.794	-	-	-	-	-	38.794

(†) indicates the presence of a P-5a

Footnotes:

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS)	Item Number / Title [DODIC]: Wide Area Surveillance
ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	
<p>⁽¹⁾ Hardware Recurring Prime: FY20/ FY21/ FY22 total WAS quantities/costs will be broken out between Stateside Affordable Radar Systems (STARS) and Scorpion systems, which have significantly different average unit costs; System quantities in FY21 have increased within existing resources to meet fully operational capability in FY25 ; FY21 quantities has increased from 3 to 15 due to change in acquisition strategy</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS)	Item Number / Title [DODIC]: Wide Area Surveillance
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Prime ^(†)		2018	Leidos / Various	Various	AFLCMC Hanscom AFB	Nov 2019	Feb 2021 ⁽²⁾	9	2.271	N		
Prime ^(†)		2019	Raytheon/Leidos / Various	Various	AFLCMC Hanscom AFB	Jul 2020	Feb 2022 ⁽³⁾	10	2.446	N	Jun 2019	
Prime ^(†)		2021	Leidos / Various	TBD	AFLCMC Hanscom AFB	Aug 2021	Dec 2022 ⁽⁴⁾	15	1.873	N	Jun 2021	
Prime ^(†)		2022	Leidos / Various	TBD	AFLCMC Hanscom AFB	Aug 2022	Dec 2023 ⁽⁵⁾	15	1.818	N	Jun 2022	

^(†) indicates the presence of a P-21

Footnotes:

- ⁽²⁾ FY18 funding awarded a production contract for Scorpion (first delivery date Oct 2020) systems.
- ⁽³⁾ FY19 funding awarded a production contract for Scorpion (first delivery date Nov 2021) and STARS (first delivery date Jan 2022) systems.
- ⁽⁴⁾ FY21 funding will award production contract options for Scorpion (first delivery date Dec 2022) systems.
- ⁽⁵⁾ FY22 funding will award production contract options for Scorpion (first delivery date Dec 2023) systems.

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Exhibit P-21, Production Schedule: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS)	Item Number / Title [DODIC]: Wide Area Surveillance
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Prime ⁽¹⁾																															
	1	2018	AF ⁽⁶⁾	9	9	0																							0		
	2	2019	AF	10	0	10	-	-	-	-	3	-	-	-	4	-	-	3											0		
	1	2021	AF	15	0	15	-	-	-	-	-	-	-	-	-	-	-	4	-	3	-	-	3	-	3	-	2	0			
	1	2022	AF	15	0	15										A	-	-	-	-	-	-	-	-	-	-	-	-	15		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS)	Item Number / Title [DODIC]: Wide Area Surveillance
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024													Fiscal Year 2025													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Prime ⁽¹⁾																																	
	1	2018	AF ⁽⁶⁾	9	9	0																							0				
	2	2019	AF	10	10	0																							0				
	1	2021	AF	15	15	0																							0				
	1	2022	AF	15	0	15	-	-	3	-	3	-	3	-	-	3	-	3											0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2022 Air Force	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS)	Item Number / Title [DODIC]: Wide Area Surveillance
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Leidos - Various			3	0	0	0	0	0	0	11	16	27
2	Raytheon/Leidos - Various				0	0	0	0	0	0	0	0	0

Remarks:
Prime cost elements include multiple contracts for the STARS and Scorpion systems. For each individual contract award, the WAS program delivery schedule does not exceed 12 months from delivery of the first unit.

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

Footnotes:
(6) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2019 loaded in the month of first delivery.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834320 / C3 Countermeasures

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207439F, 0208087F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	25.036	100.084	131.238	-	131.238	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	25.036	100.084	131.238	-	131.238	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	25.036	100.084	131.238	-	131.238	-	-	-	-	-	-

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

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

Description:

PE 0208064F Operational HQ-Cyber/Cyberspace Command and Control Mission System (C3MS) - P-5

Provides the AFCYBER Commander with hardware and software tools necessary to effectively and efficiently plan, monitor, and execute missions in the cyber and Information Warfare domains. This includes development and dissemination of Cyberspace Tasking Orders to ensure commander's intent is supported through the application of cyber forces using the latest intelligence. C3MS provides a common operational picture to maintain cyberspace threat activities and integrates cyberspace indications and warnings, analysis, and other actionable intelligence products into overall situational awareness, planning, and execution. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting. Funding for this exhibit contained in PE 0208064F.

Distributed Cyber Warfare Operations (DCWO) PE 0208087F - P-40A

Provides for the innovation, test, support and deployment of Cyberspace solutions in the form of material and non-material Cyberspace platforms, access, and payloads for USAF Offensive Cyberspace Operations (OCO) to include but not limited to USAF OCO units, the Cyber Mission Forces, COCOMs, and other authorized agencies. Funding procures specialized hardware and software necessary for real-time deployment, exploit identification, tool development and testing in an environment simulating real-world operational infrastructures and enclaves. Starting in FY21, a portion of procurement funding for specialized training equipment was realigned from PE 0208087F into PE 0804762F Cyber Training for clarity in reporting. Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614. Funding for this exhibit contained in PE 0208087F.

PE 0208088F AF Defensive Cyberspace Operations (DCO) - P-5

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. 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. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) and WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting. Funding in this exhibit contained in PE 0208088F.

PE 0208099F Unified Platform (UP) - P-40A

Procures capabilities to provide the Cyber Mission Forces (CMFs), U.S. Cyber Command (USCYBERCOM), and AF Major Commands a joint cyber operations infrastructure capable of mission planning, data analytics, and decision support for the execution of full-spectrum cyberspace operations through tactical levels of warfare. Funds procure hardware necessary for the effective deployment of operational capability

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834320 / C3 Countermeasures
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207439F, 0208087F
Line Item MDAP/MAIS Code: N/A		
<p>to the CMFs. This is a joint program with the Air Force as the lead service. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting. Funding in this exhibit contained in PE 0208099F.</p> <p>PE 0303166F Joint Information Operations Range (JIOR) - P-40A The Joint Information Operations Range (JIOR) provides DoD with a closed-loop network that forms a global live-fire information operations range complex. JIOR uses encrypted tunneling over existing transport networks to conduct mission rehearsal, training, testing, concept development and experimentation in support of Information Operations (IO), Electronic Warfare (EW), Offensive Cyber Operations (OCO), Defensive Cyber Operations (DCO), Spectrum Warfare, Space Operations, and Special Operations Forces mission areas in a realistic threat representative environment. JIOR provides the capability to train and certify Cyber Mission Forces on the full spectrum of cyber weapons/capabilities without risk of observation or fratricide. JIOR integrates available cyberspace ranges with the training/test audience providing access to low density/high demand test and training resources including critical infrastructure, cyber targets, internet traffic, and opposing forces. JIOR supports Presidential policy and CJCS mandates for training, certification, and recertification of 6000+ cyber mission forces and DoD/Interagency cyber vulnerability assessments. C/S/A's conduct hundreds of mission rehearsal, training, testing, and experimentation events on the JIOR annually. Funding for this exhibit contained in PE 0303166F.</p> <p>PE 0306250F Cyber Operations Technology Development - P-5 Provides Cyber National Mission Force (CNMF) Cyber Protection Teams (CPT) with a self-contained capability to conduct a full range of survey, secure, and protect missions that prepare local cyberspace defenders to sustain an advanced cyberspace defense posture and to defend the supported commander's critical assets. Hardware and software solutions support the USCYBERCOM mission to deter or defeat strategic threats to US interests and infrastructure, provide mission assurance for the operations and defense of the Department of Defense. Funding for this exhibit contained in PE 0306250F. Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact USCYBERCOM, 443-479-2602.</p> <p>PE 0804762F Cyberspace Training - P-40A Provides for Cyberspace solutions in the form of material and non-material Cyberspace training platforms, threat-representative networks, mission-relevant cyber terrain, and multi-domain architecture to support initial/mission qualification training and exercises for USAF and Joint cyber operations organizations including, but not limited to, USAF Offensive Cyber Operations units, Defensive Cyber Operations units, Mission Defense Teams, the Cyber Mission Forces, Combatant Commands, and other authorized agencies. Funding procures hardware, software, and other training tools supporting individual and collective offensive and defensive cyber operator training, Service and Joint training exercises, and combat mission rehearsals. Solutions include rapidly evolving environments simulating real-world operational infrastructures and enclaves, operated by the USAF test, training, and range squadrons under Air Combat Command. Funding for this exhibit contained in PE 0804762F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 834320 / C3 Countermeasures
Equip / BSA 4: Spcl Comm-Electronics Projects

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207439F, 0208087F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	OPERATIONAL HQ - CYBER		A		- / -	- / 0.000	- / 4.794	- / 4.882	- / -	- / 4.882
P-40a	Distributed Cyber Warfare Operations				- / -	- / 25.036	- / 18.782	- / 16.848	- / -	- / 16.848
P-5	AF Defensive Cyberspace Operations		A		- / -	- / 0.000	- / 54.980	- / 88.878	- / -	- / 88.878
P-40a	Unified Platform (UP)				- / -	- / 0.000	- / 4.956	- / 4.904	- / -	- / 4.904
P-40a	Support to Information Operations (IO) Capabilities				- / -	- / 0.000	- / 0.000	- / 1.226	- / -	- / 1.226
P-5	Cyber Operations Technology Support		A		- / -	- / 0.000	- / 11.986	- / 9.881	- / -	- / 9.881
P-40a	Cyberspace Training				- / -	- / 0.000	- / 4.586	- / 4.619	- / -	- / 4.619
P-40	Total Gross/Weapon System Cost				- / -	- / 25.036	- / 100.084	- / 131.238	- / -	- / 131.238

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

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

Justification:

PE 0208064F Operational HQ-Cyber/Cyberspace Command and Control Mission System (C3MS) - P-5
 FY22 funding purchases commercial cloud capability, automated data exchange, cyber situational awareness displays, and mission application modernization/migration in support of additional C2 and SA capabilities aligned to meet validated operational requirements. Funding supports capital cloud resources/updates to maintain security posture and field updates to two locations, and provides for Program Management Administration (PMA) support. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting.

AF Distributed Cyber Warfare Operations (DCWO) PE 0208087F - P-40A
 Funding will procure additional instances of platforms, accesses, and payloads in the DCWO portfolio. Starting in FY21, a portion of funding for procurement of cyber weapon system testing and training assets have been moved to PE 0804762F Cyber Training. Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact AFLCMC/HNCO, 210-925-6614.

PE 0208088F AF Defensive Cyberspace Operations (DCO) - P-5

1. CYBERSPACE VULNERABILITY ASSESSMENT/HUNTER (CVA/H): Defensive cyber capability for Air Force Cyber Protection Teams (CPT). CVA/H equipment [(Garrison Interceptor Platform (GIP), Deployable Interceptor Platform (DIP), and Mobile Interceptor Platform (MIP))] in FY22 is hardware refresh of the subsystems. This includes an enhanced DIP which is capable of 10GB throughput in a small form factor (less than 50lbs and TSA carry-on compliant). Note: Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting. Hardware/software supporting CVA/H threat-relevant and time-critical countermeasures against agile adversaries previously provided by Computer Security Assistance Program (CSAP) will now be provided as part of the CVA/H program.

2. COMPUTER SECURITY ASSISTANCE PROGRAM (CSAP) COUNTERMEASURES: In FY22 CSAP funding transitioned into ACD and CVA/H program baselines. ACD and CVA/H programs transition to industry standard agile frameworks in FY20. Requirements supporting CVA/H and ACD programs previously met by CSAP to be incorporated into baseline programs.

3. CYBER DEFENSE ANALYSIS (CDA): FY22 funding procures necessary hardware and software to combat the rapidly evolving cyber threats, as well as additional recapitalization projects. These projects include Enterprise Voice Protection System (VPS)/Voice Over Internet Protocol (VoIP) Monitoring (184+ AF Sites and regional management and collection servers at 3 Integrated Network Operations and Security Centers) which provides the operators the ability to monitor VoIP calls for sensitive information and provides critical Internet Protocol (IP) based network defense. The VoIP Monitoring project also

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834320 / C3 Countermeasures
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207439F, 0208087F
Line Item MDAP/MAIS Code: N/A		
<p>inherently provides IP based firewall protection, denial of service protection, robot call blocking, etc. that will enable the AF to establish true VoIP call capability at all 184+ bases. In FY22 CDA Procurement funding increases to support early system deployment of Enterprise-Data Loss Prevention (E-DLP) capability. Capability is critical to overcome technological advances, and provide operators the ability to automatically detect, assess, and classify sensitive content using content-aware detection techniques such as: partial and exact data matching, structured data fingerprinting, statistical analysis, extended regular expression matching, conceptual and lexicon analysis, image recognition, optical character recognition, and forms recognition, along with other CDA sub-system components and pathfinder efforts. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting.</p> <p>4. WEAPON SYSTEM CYBER RESPONSE (WSCR): The Cyber Squadron Initiative (CSI), the CVA/H weapon system Mobile Interceptor Platforms (MIP) and Deployable Interceptor Platforms (DIP) will be provided to the SAF/CIO directed Mission Defense Teams (MDT). The MDTs will use the MIPs and DIPs to provide cyber assurance of the Air Force core missions. FY22 provides technical refresh of 15 existing MDTs and equips an additional 20 MDTs. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting.</p> <p>5. AIR FORCE CYBERSPACE DEFENSE WEAPON SYSTEM (ACD): Procures and installs active defensive counter cyberspace operations and situational awareness capabilities in a Defensive Cyberspace Operations role to achieve cyberspace superiority for assigned missions. ACD procurements allow for 24/7/365 monitoring and defense of US Air Force and US Central Command, and Third Party SIPR/NIPR computer networks against hostile attacks as well as intrusion detection, network traffic analysis, network forensics analysis, countermeasure development and execution, and incident response. ACD provides indication and warning, correlation, logging, vulnerability remediation, assessment, process management, blocking, vulnerability identification, investigation, and containment. In addition, ACD provides CSSP (Cyber Security Service Provider) system upgrades to the AFNet and several third party entities including Joint Strike Fighter, USTRANSCOM, and others. Efforts include, but are not limited to: Next Generation Firewall and Full Packet Capture and Data Analytics Enterprise. FY22 funds will procure updates which include Enterprise Logging, Data Wall, Data Analytics (via ELICSAR big data platform), and hardware/software upgrades needed to maximize operators' threat awareness. Funding increases to deploy deception technology, which enhances Endpoint Detection and Response (EDR) by employing Artificial Intelligence/Machine Learning (AI/ML) driven solutions to speed decision-making against threats to the Air Force Network (AFNET). Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting. Hardware/software supporting ACD threat-relevant and time-critical countermeasures against agile adversaries previously provided by Computer Security Assistance Program (CSAP) will now be provided as part of ACD program.</p> <p>PE 0208099F Unified Platform (UP) - P-40A Procures capabilities to provide the Cyber Mission Forces (CMFs), U.S. Cyber Command (USCYBERCOM), and AF Major Commands a Joint cyber operations infrastructure capable of mission planning, data analytics, and decision support for the execution of full-spectrum cyberspace operations at the operations through tactical levels of warfare. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.</p> <p>PE 0303166F Joint Information Operation Requirement (JIOR) - P-40A FY22 JIOR procurement funding is used to purchase technology upgrades/modernization to the JIOR enterprise network. Planned equipment and software modernization enable the JIOR to extend service to 77 new sites while continuing support to the existing 175 JIOR access points. Equipment for 30 of these sites will be procured in FY 2022.</p> <p>PE 0306250F Cyber Operations Technology Development - P-5 FY22 funding will procure hardware and software required to equip Hunt Forward Kits in support of Cyber National Mission Force (CNMF) Cyber Protection Team (CPT) missions. Some aspects of the effort are classified and will be provided on a need to know basis. For further information please contact, 443-479-2602.</p> <p>PE 0804762F Cyberspace Training - P-40A Funding procures student mission training systems (hardware, software, infrastructure, and facility modifications) supporting Information and Cyber Operations training needs. FY22 funding continues investment begun in FY21 to provide additional hardware and software supporting training capacity increases to meet Cyber Mission Force (CMF) required pipeline of approximately 1770 students/year. Includes essential training infrastructure suite consisting of switches, servers, storage, and software licenses for 6 virtual classrooms. Funding for this exhibit realigned from PE 0208087F beginning in FY21 for clarity in reporting.</p>		

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Exhibit P-5, Cost Analysis: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834320 / C3 Countermeasures	Item Number / Title [DODIC]: OPERATIONAL HQ - CYBER
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	4.794	4.882	-	4.882
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	4.794	4.882	-	4.882
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.000	4.794	4.882	-	4.882

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Operational HQ - Cyber Cost																		
Recurring Cost																		
HARDWARE AND COMMERCIAL OFF-THE-SHELF SOFTWARE	-	-	-	-	-	0.000	4.594	1	4.594	4.682	1	4.682	-	-	-	4.682	1	4.682
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	4.594	-	-	4.682	-	-	-	-	-	4.682
Non Recurring Cost																		
TRAINING AND FIELDING	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Operational HQ - Cyber Cost</i>	-	-	-	-	-	0.000	-	-	4.594	-	-	4.682	-	-	-	-	-	4.682
Support - Operational HQ - Cyber Cost																		
PROGRAM MANAGEMENT ADMINISTRATION (PMA) CONTRACTOR SERVICES	-	-	-	-	-	0.000	0.200	1	0.200	0.200	1	0.200	-	-	-	0.200	1	0.200
<i>Subtotal: Support - Operational HQ - Cyber Cost</i>	-	-	-	-	-	0.000	-	-	0.200	-	-	0.200	-	-	-	-	-	0.200
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	4.794	-	-	4.882	-	-	-	-	-	4.882

Remarks:

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834320 / C3 Countermeasures **Aggregated Items Title:** Distributed Cyber Warfare Operations

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support - PMA Cost																				
PMA Contractor Services - Payloads	A		-	-	-	-	-	2.124	-	-	1.750	-	-	0.000	-	-	-	-	-	0.000
PMA Contractor Services - Platforms	A		-	-	-	-	-	0.719	-	-	1.470	-	-	1.978	-	-	-	-	-	1.978
PMA Contractor Services - Access/ Infrastructure	A		-	-	-	-	-	1.000	-	-	0.000	-	-	1.979	-	-	-	-	-	1.979
Subtotal: Support - PMA Cost			-	-	-	-	-	3.843	-	-	3.220	-	-	3.957	-	-	-	-	-	3.957
Distributed Cyber Warfare Operations (DCWO) Cost																				
Payloads	A		-	-	-	-	-	5.500	-	-	2.557	-	-	0.300	-	-	-	-	-	0.300
Platforms	A		-	-	-	-	-	2.800	-	-	8.033	-	-	9.022	-	-	-	-	-	9.022
Access/Infrastructure	A		-	-	-	-	-	0.420	-	-	4.972	-	-	2.669	-	-	-	-	-	2.669
Data Analytics	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.900	-	-	-	-	-	0.900
Cyber Unique Equipment	A		-	-	-	-	-	10.760	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Test and Training Equipment	A		-	-	-	-	-	1.713	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Distributed Cyber Warfare Operations (DCWO) Cost			-	-	-	-	-	21.193	-	-	15.562	-	-	12.891	-	-	-	-	-	12.891
Total			-	-	-	-	-	25.036	-	-	18.782	-	-	16.848	-	-	-	-	-	16.848

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

Remarks:
P-5 funding break out not required as program is not an ACAT I and does not procure quantities of items.

P-40A format consolidated the following items under major efforts (except PMA cost):
 - Payloads: Payloads Software
 - Platforms: Cyber Mission Platform (CMP) Hardware and Software
 - Access/Infrastructure: Hydra & Telephony Network Operations (TNO) Hardware and Software

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834320 / C3 Countermeasures	Item Number / Title [DODIC]: AF Defensive Cyberspace Operations

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	54.980	88.878	-	88.878
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	54.980	88.878	-	88.878
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.000	54.980	88.878	-	88.878

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - AF Defensive Cyberspace Operations Cost																		
Recurring Cost																		
1. Cyberspace Vulnerability Assessment/Hunter (CVA/H)	-	-	-	-	-	0.000	0.052	435	22.616	0.052	534	27.770	-	-	-	0.052	534	27.770
2. Computer Security Assistance Program (CSAP)	-	-	-	-	-	-	2.060	1	2.060	-	-	-	-	-	-	-	-	-
3. Cyberspace Defense Analysis (CDA)	-	-	-	-	-	-	1.699	1	1.699	10.374	1	10.374	-	-	-	10.374	1	10.374
4. Weapon System Cyber Response (WSCR)	-	-	-	-	-	-	0.052	91	4.745	0.052	294	15.271	-	-	-	0.052	294	15.271
5. Air Force Cyber Defense (ACD)	-	-	-	-	-	-	23.860	1	23.860	35.463	1	35.463	-	-	-	35.463	1	35.463
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	54.980	-	-	88.878	-	-	-	-	-	88.878
<i>Subtotal: Hardware - AF Defensive Cyberspace Operations Cost</i>	-	-	-	-	-	0.000	-	-	54.980	-	-	88.878	-	-	-	-	-	88.878
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	54.980	-	-	88.878	-	-	-	-	-	88.878

Remarks:

Note: In FY22 CSAP funding transitioned into ACD baseline. ACD and CVA/H programs transition to industry standard agile frameworks, enabling consolidation of CSAP requirements into ACD and CVA/H program baselines.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834320 / C3 Countermeasures	Item Number / Title [DODIC]: AF Defensive Cyberspace Operations
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	
<p>In FY22 CDA Procurement funding increases to support early system deployment of Enterprise-Data Loss Prevention (E-DLP) capability. Capability is critical to overcome technological advances, and provide operators the ability to automatically detect, assess, and classify sensitive content using content-aware detection techniques.</p> <p>In FY22 ACD Procurement funding increases to obtain deception technology, which enhances Endpoint Detection and Response (EDR), providing Artificial Intelligence/Machine Learning (AI/ML) driven solutions to speed decision-making against persistent threats to the Air Force Network (AFNET).</p> <p>CVA/H, CSAP, CDA, and WSCR funding was realigned from 831010 Comsec Equipment and ACD was realigned from 835080 AFNET beginning in FY21. Prior year details can be found in WSC 831010 and 835080.</p> <p>DCO Cyber weapon systems are centrally managed.</p>		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834320 / C3 Countermeasures	Aggregated Items Title: Unified Platform (UP)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Unified Platform (UP)																				
Unified Platform (UP)	A		-	-	-	-	-	0.000	2.478	2	4.956	4.904	1	4.904	-	-	-	4.904	1	4.904
Subtotal: Unified Platform (UP)			-	-	-	-	-	0.000	-	-	4.956	-	-	4.904	-	-	-	-	-	4.904
Total			-	-	-	-	-	0.000	-	-	4.956	-	-	4.904	-	-	-	-	-	4.904

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

Remarks:
 Prior year Unified Platform (UP) reported quantity of 2 in order to indicate delivery of Cross Domain Solution hardware and software to 2 locations. Beginning in FY22 quantities reported as 1 to more accurately indicate hardware and/or software modifications to previously delivered capabilities.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force														Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4						P-1 Line Item Number / Title: 834320 / C3 Countermeasures						Aggregated Items Title: Support to Information Operations (IO) Capabilities							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware																				
Enterprise Network Modernization	A		-	-	-	-	-	0.000	-	-	0.000	1.226	1	1.226	-	-	-	1.226	1	1.226
Subtotal: Hardware			-	-	-	-	-	0.000	-	-	0.000	-	-	1.226	-	-	-	-	-	1.226
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	1.226	-	-	-	-	-	1.226

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

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Exhibit P-5, Cost Analysis: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4	P-1 Line Item Number / Title: 834320 / C3 Countermeasures	Item Number / Title [DODIC]: Cyber Operations Technology Support
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	11.986	9.881	-	9.881
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	11.986	9.881	-	9.881
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	11.986	9.881	-	9.881

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hunt Forward Kit Cost																		
Recurring Cost																		
Kit	-	-	-	-	-	0.000	0.487	24	11.686	0.479	20	9.581	-	-	-	0.479	20	9.581
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	11.686	-	-	9.581	-	-	-	-	-	9.581
<i>Subtotal: Hardware - Hunt Forward Kit Cost</i>	-	-	-	-	-	0.000	-	-	11.686	-	-	9.581	-	-	-	-	-	9.581
Support - PMA Cost																		
PMA	-	-	-	-	-	-	-	-	0.300	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal: Support - PMA Cost</i>	-	-	-	-	-	-	-	-	0.300	-	-	0.300	-	-	-	-	-	0.300
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	11.986	-	-	9.881	-	-	-	-	-	9.881

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834320 / C3 Countermeasures **Aggregated Items Title:** Cyberspace Training

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Cyber Training																				
Cyber Multi-Domain Architecture	A		-	-	-	-	-	0.000	0.918	1	0.918	0.923	1	0.923	-	-	-	0.923	1	0.923
Cyber Test and Training	A		-	-	-	-	-	-	1.834	1	1.834	1.848	1	1.848	-	-	-	1.848	1	1.848
Cyber IQT-MQT	A		-	-	-	-	-	-	1.834	1	1.834	1.848	1	1.848	-	-	-	1.848	1	1.848
Subtotal: Cyber Training			-	-	-	-	-	0.000	-	-	4.586	-	-	4.619	-	-	-	-	-	4.619
Total			-	-	-	-	-	0.000	-	-	4.586	-	-	4.619	-	-	-	-	-	4.619

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

Remarks:

Note: New PE beginning in FY21. Funding realigned from 0208087F Distributed Cyber Warfare Operations to clarify spending on Cyber Training systems.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 834410 / Integrated Personnel and Pay System

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0901250F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	15.240	-	15.240	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	15.240	-	15.240	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	15.240	-	15.240	-	-	-	-	-	-

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

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

Description:

The Air Force Integrated Personnel and Pay System (AFIPPS) will be a web enabled, Enterprise Resource Planning (ERP) solution providing integrated Total Force personnel and pay capabilities across the Air and Space Force Active, Guard and Reserve Components. It will serve as the platform to enable Total Force Integration within Human Resource Management. The system represents the Department of the Air Force's commitment to modernizing business practices and providing enhanced support for today's service members and their families. AFIPPS will align with Department of Defense (DoD) data standards for personnel, pay, and accounting, including the Common Human Resource Information Standards (CHRIS), which will ensure compliance with the Business Enterprise Architecture (BEA).

Funding for this exhibit is contained in PE 0901250F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 834410 / Integrated Personnel and Pay System

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0901250F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Integrated Personnel and Pay System				- / -	- / 0.000	- / -	- / 15.240	- / -	- / 15.240
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 0.000	- / 15.240	- / -	- / 15.240

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

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

Justification:

This program, Category Payroll COTS Software Licenses Item 834410-Integrated Personnel & Pay System (PE 0901250F), is a new start.

Payroll COTS software licenses are required to deploy the AFIPPS system in FY22. If not purchased, the system will not deploy.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 **P-1 Line Item Number / Title:** 834410 / Integrated Personnel and Pay System **Aggregated Items Title:** Integrated Personnel and Pay System

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Payroll COTS Software Licenses																				
834410-Integrated Personnel & Pay System (PE 0901250F)	A		-	-	-	-	-	0.000	-	-	-	-	-	15.240	-	-	-	-	-	15.240
Subtotal: Payroll COTS Software Licenses			-	-	-	-	-	0.000	-	-	-	-	-	15.240	-	-	-	-	-	15.240
Total			-	-	-	-	-	0.000	-	-	-	-	-	15.240	-	-	-	-	-	15.240

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

Remarks:
Payroll COTS Software Licenses to supports the Total Force (Regular AF, AF Reserves, and Air National Guard).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834430 / GCSS-AF Fos

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0708012F, 0708610F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	11.226	0.000	3.959	-	3.959	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	11.226	0.000	3.959	-	3.959	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	11.226	0.000	3.959	-	3.959	-	-	-	-	-	-

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

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

Description:

PE 0708610F LOGISTICS INFORMATION TECHNOLOGY (LOGIT)

The Air Force logistics enterprise is comprised of multiple overarching functional areas, end-to-end supply chain support, base supply inventories, and predictive analysis and forecasting. Enterprise Logistics Systems deliver integrated logistics information driving war winning decisions by shaping, acquiring, and sustaining warfighting IT capabilities and mission support. OPAF funding will be used for capital equipment replacement to include servers and will also be purchase multi-year software licenses.

Systems contained in these business areas include, but are not limited to: Integrated Maintenance Data System (IMDS), Reliability and Maintainability Information System (REMIS), Reliability, Availability, Maintainability for Pods (RAMPOD), Integrated Logistics System-Supply (ILS-S), Stock Control System (SCS), Enhanced Technical Information Management System (ETIMS), Product Lifecycle Management (PLM), Supply Capability Initiative (SCI), and Foundational Logistics Information Technology Enterprise System (FLITES) (formerly Item Master Logistics Capability Initiative (IMLCI)).

Funding for this exhibit contained in PE 0708610F.

Justification:

This program, GCSS-AF Fos P-40A Category Uncategorized Item Foundational Logistics Information Technology Enterprise System (FLITES) (formerly IMLCI) - Licenses, is a new start.

PE 0708610F LOGISTICS INFORMATION TECHNOLOGY (LOGIT)

The FY22 OPAF funding will be used primarily to purchase licenses for the Foundational Logistics Information Technology Enterprise System (FLITES) (formerly Item Master Logistics Capability Initiative (IMLCI)) as well as procure various types/amounts of software in support of unit mission requirements for Air Force personnel.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

P-1 Line Item Number / Title:
 834470 / Defense Enterprise Accounting & Mgt Sys

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0901554F

Line Item MDAP/MAIS Code: N87

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	14.040	2.285	0.899	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	14.040	2.285	0.899	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	14.040	2.285	0.899	0.000	-	0.000	-	-	-	-	-	-

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

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

Description:

FY22 budget controls have been realigned to RDT&E, Air Force PE 0608920F, Project 685178, DEAMS Continuous Capability Development for participation in the BA08, Software and Digital Technology Pilot Program.

DEAMS is a commercial-off-the-shelf (COTS), Oracle-based software implementation which provides an auditable, modern accounting and finance management capability. It is the Department of the Air Force's (DAF) core accounting and financial management solution and is a key component of the DAF's long-term business process improvements needed to sustain auditability and correct financial system weaknesses. DEAMS supports 17,000 users at 170 installations world-wide supporting all Air Force Major Commands, the U.S. Space Force, and Unified Commands where the DAF is the executive agent.

DEAMS is a joint DAF and United States Transportation Command (USTRANSCOM) Enterprise Resource Planning (ERP) Program that replaces numerous inefficient and/or obsolete legacy accounting and finance systems and provides core funds execution management functions consistent with financial management laws, regulations and policy, general ledger, funds management, payments, receivables, cost and revenues, and fiduciary reporting.

The DAF has transitioned DEAMS to the Capability Support Phase, in which enhancements are managed through the Agile software development backlog by the Program Management Office (PMO) and Function Management Office (FMO). Enhancement activities will be implemented via a process of development cycles, in which usable capability is produced after every iteration. The PMO construct, along with the application of Agile principles allows the program to properly plan system requirements, deliver early capability to the end users, achieve early return on investment of taxpayer dollars, mitigate risk, reduce waste, effectively respond to change, and continuously improve processes.

DEAMS will require software user licenses to support system deployments as well as potential software and hardware requirements needed to manage, execute, and deliver DEAMS system capability including necessary system upgrades.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

Justification:

Funds are used to procure software user licenses and other potential hardware and software using multiple contracts and various vendors. Software license counts are estimates and may vary at actual execution based on system needs.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834470 / Defense Enterprise Accounting & Mgt Sys
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0901554F
Line Item MDAP/MAIS Code: N87		

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

No Budget Year FY22 funds requested

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:
 834480 / Maintenance Repair & Overhaul Initiative

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0708055F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	4.387	-	4.387	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	4.387	-	4.387	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	4.387	-	4.387	-	-	-	-	-	-

(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:

MAINTENANCE REPAIR AND OVERHAUL INITIATIVE (MROi):

The MROi program is a Doctrine, Organization, Training, Materiel, Leadership, Personnel, Facilities and Policies (DOTMLPF-P) transformation and standardization of both the business processes and enabling materiel solution. MROi will provide Air Force Sustainment Center (AFSC) with an integrated capability for planning, scheduling, and executing organic depot maintenance to support agile planning, optimized workload assignment, resource allocation, integrated quality, and maintenance-driven Air Force Working Capital Fund (AFWCF) financials auditability. This integrated capability, by definition, represents a critical step forward toward resolution of the Air Force's Integrated Financial Systems Material Weakness.

MROi will implement a configured Oracle Enterprise Business Suite (EBS) commercial off-the-shelf (COTS) software product with required reports, interfaces, conversions, extensions, and workflows (RICE-W) objects.

MROi will implement throughout all AFSC commodities, electronics, missile, propulsion, aircraft, and maintenance support groups. MROi's implementation will include transitional interfaces with various legacy systems to support continuous operations within the depot maintenance and supporting financials environment.

MROi will be using 3080 funding to purchase various software licenses in support of the MROi capability currently under development (RDT&E).

Funding for this exhibit is contained in PE 0708055F.

Justification:

This program is a new start.

The FY 2022 funding will be used for various types/amounts of software licenses in support of unit mission requirements for Air Force personnel. The budget reflects funding to procure production software licenses in quantities sufficient to support the MROi user community based on an agile multiple release strategy.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

P-1 Line Item Number / Title:
 834520 / Theater Battle Mgt C2 System

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	6.322	3.392	4.052	-	4.052	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	6.322	3.392	4.052	-	4.052	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	6.322	3.392	4.052	-	4.052	-	-	-	-	-	-

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

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

Description:

PE 0207438F, Theater Battle Management (TBM) C4I - P-40A

1. Theater Battle Management Core System - Force Level (TBMCS FL): An integrated battle management system used to plan, execute, and assess an air campaign. It provides automated planning tools enabling consistent, coordinated battle management at both Air Operations Center (AOC) and non-AOC entities for operations and intelligence functions. TBMCS FL is a United States Air Force lead system with joint interest responsible for generation and dissemination of the Air Tasking Order (ATO) and inter-operates with allied units. This program is part of the overarching Kessel Run portfolio.

PE 0305015F, C2 Air Operations Suite - C2 Info Services (C2AOS-C2IS) - P-40A

2. TBMCS FL: An integrated battle management system used to plan, execute, and assess an air campaign. It provides automated planning tools enabling consistent, coordinated battle management at both AOC and non-AOC entities for operations and intelligence functions. TBMCS FL is a United States Air Force lead system with joint interest responsible for generation and dissemination of the ATO and inter-operates with allied units. This program is part of the overarching Kessel Run portfolio.

3. Command and Control, Incident Management and Emergency Response Application (C2IMERA; formerly Unit Command and Control [UC2]) provides the wing and base commanders, and their battle staffs, with timely and accurate information for effective decision making. C2IMERA also provides a secure, automated, deployable, and distributed wing-level command and control system with connectivity to TBMCS. This program is part of the overarching Kessel Run portfolio.

PE 0305984F, Personnel Recovery Command and Control (PRC2) - P-40A

4. Provides PRC2 services supporting all Combatant Commands, Joint Services and other government agencies. Capabilities include web-based access to isolated personnel reports for all Department of Defense (DoD) personnel, C2 tools for performing command and control of recovery efforts for downed airmen/isolated ground troops, and rapid identification of personnel in distress. PRC2 is used within AOC/ Areas Of Responsibility (AOR), Joint Personnel Recovery Centers, and Rescue Coordination Centers to provide the capabilities and services for planning and executing recovery of isolated personnel, and rapidly collaborate, disseminate, and store time-sensitive personnel recovery information.

The FY 2022 funding request was reduced by \$1.011 million to account for the availability of prior year execution balances (TBMCS FL).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects		P-1 Line Item Number / Title: 834520 / Theater Battle Mgt C2 System
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
Funding for this exhibit contained in PE 0207438F, PE 0305015F and PE 0305984F.		
<p>Justification: PE 0207438F, Theater Battle Management (TBM) C41 - P-40A; \$3.683 million</p> <p>1. TBMCS FL: Provides the Combined/Joint Force Air Component Commander (C/JFACC) with the automated tools necessary to effectively and efficiently plan, monitor, and execute the air campaign. This includes planning and issuing the ATO and Airspace Control Order (ACO) that ensure the theater commander's intent is supported through the application of airpower using the latest intelligence. FY22 funding will field TBMCS FL Capital Equipment Replacement (CER) to the systems to maintain security posture and field to more than 40 locations.</p> <p>a. TBMCS FL PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY22 funding includes provisions for government contract oversight, technical expertise, and program office support associated with the fielding of TBMCS FL.</p> <p>b. TBMCS FL FIELDING: FY22 funding will continue to support fielding of the TBMCS FL upgrades.</p> <p>c. TBMCS FL: FY22 funding will continue to be used to procure hardware and associated software licenses for fielding to various sites.</p> <p>PE 0305015F, C2 Air Operations Suite - C2 Info Services (C2AOS-C2IS) - P-40A; \$0.000 million</p> <p>2. TBMCS FL: No Budget Year FY22 funding requested.</p> <p>3. C2IMERA (formerly UC2): No Budget Year FY22 funding requested.</p> <p>PE 0305984F, Personnel Recovery Command and Control (PRC2) - P-40A; \$0.369 million</p> <p>4. PRC2: Provides PRC2 services supporting all Combatant Commands, Joint Services and other government agencies. Capabilities include web-based access to isolated personnel reports for all DoD personnel, C2 tools for performing command and control of recovery efforts for downed airmen/isolated ground troops, and rapid identification of personnel in distress. PRC2 is used within AOC/AOR, Joint Personnel Recovery Centers, and Rescue Coordination Centers to provide the capabilities and services for planning and executing recovery of isolated personnel, and rapidly collaborate, disseminate, and store time-sensitive personnel recovery information.</p> <p>a. PRC2 HARDWARE AND COTS SOFTWARE: FY22 funding will continue to procure various hardware pieces and associated software licenses for fielding to the 517th Software Engineering Squadron (SWES) Development Network (DevNet).</p> <p>b. PRC2 PMA: FY22 funding will provide for government program oversight, technical expertise, and program office support associated with the PRC2 fielding</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

P-1 Line Item Number / Title:
 834530 / Air & Space Operations Center (AOC)

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	33.243	15.383	2.224	-	2.224	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	33.243	15.383	2.224	-	2.224	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	33.243	15.383	2.224	-	2.224	-	-	-	-	-	-

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

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

Description:

In FY 2022, the majority of procurement funds were transferred to PE 0608410F, Air & Space Operations Center (AOC), Project 684596, AOC WS Modifications, in order to a participate in DoD's Budget Activity 8 for Software and Digital Technology Pilot Program.

The Air Operations Center Weapon System (AOC WS), AN/USQ-163 Falconer, the senior element of the Theater Air Control System, is the weapon system that the Commander, Air Force Forces (COMAFFOR) provides the Combined/Joint Force Air Component Commander (C/JFACC) for monitoring, planning, executing and assessing theater-wide air and space operations in support of the air battle campaign to meet the Combined/Joint Force Commander's (C/JFC) objectives. This program is part of the overarching Kessel Run portfolio.

The AOC WS contains over 50 Command and Control (C2) systems/applications (3rd Party Commercial Off the Shelf (COTS)/Government Off the Shelf (GOTS)) that are continually being updated under monthly, quarterly and annual efforts (i.e. Agile Release Events (AREs), Critical Security Update (CSU), etc.). The AOC WS 10.1 integrates these changes as well as provides periodic Capital Equipment Replacement (CER) to keep the AOC WS interoperable, supportable, and compliant (e.g., certification and accreditation). Fielding will provide Joint C2 interoperability, and respond to the highest priority Combatant Command (CCMD) interoperability problems including: (a) incorporating fixes to shortfalls in interactions with CCMD targeting support systems, (b) enhancing the effectiveness of the operational picture to respond to the proliferation of sensors, and (c) handling data interface changes being experienced with older 3rd Party program deliveries. Major subsystems have enhanced their security profile and this fielding will serve as a re-accreditation of the overall AOC WS baseline. Primary efforts in fielding include CER and baseline updates via variously sized Baseline Releases (BR). BRs include regularly scheduled 3rd Party COTS/GOTS application updates. They are normally comprised of hardware/software changes/updates/modernized improvements/modifications and security patches. Each BR is based on warfighter-validated needs that require updates to the AOC WS 10.1. The AOC Block 20 Modification effort delivered a hybrid cloud-based Infrastructure and Platform as a Service (IaaS/PaaS) to the AOC WS baseline. The hybrid cloud includes on premise hardware, software and commercial cloud computing services that host and provide air operations capabilities to the AOC enterprise.

The AOC WS funding provides system hardware, software, technical documents, CER (e.g., replacing end-of-life/end of support Direct Mission Support (DMS) and 3rd Party components), core radio and initial training to standardize and sustain the AOC WS. This includes the integration, test and fielding of cyber security improvements and existing 3rd Party modernized improvements/modifications (e.g., replace paper copy with electronic requests). The fielding and CER consist of AOCs and their associated support sites (e.g., Help Desk, Formal Training Unit (FTU), experimental sites, and Air Reserve Component sites).

There are three distinct categories of AOCs: Geographic, Global (formally known as Functional), and assorted AOC Support Functions (Help Desk, Field Training Unit (FTU), Operational Support Facility (OSF) and Air Reserve Component sites). While all sites start with the standardized 10.1 baseline, each is specifically tailored to the needs of the associated Geographic CCMD or Global (formally known as Functional)

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects **P-1 Line Item Number / Title:** 834530 / Air & Space Operations Center (AOC)

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

Command. Thus, as no two AOCs are alike, when a CER or BR is accomplished, each site is unique and requires its own specifically designed site-engineered fielding plan and associated hardware, which drives differences in site specific (i.e., unit) costs.

Funding for this exhibit contained in PE 0207410F.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	28.959	12.528	2.224	-	2.224	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.380	1.586	0.000	-	0.000	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.904	1.269	0.000	-	0.000	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	33.243	15.383	2.224	-	2.224	-	-	-	-

Justification:

Primary efforts include integration, communications upgrades to improve existing infrastructure, and CER replacing end-of-life/end of support components for Enterprise/Baseline updates.

1. CAPITAL EQUIPMENT REPLACEMENT (CER): FY22 funds will be used to support CER of On-Premise multi-domain platform support in the Operational Support Facility (OSF) and Combined AOC - Experimental (CAOC-X) site.
2. OTHER NEW/EXISTING CAPABILITIES: FY22 funds will be used to fund capabilities based on emerging operational requirements and project timelines, which may include:
 - a. Secure, internal/external multi-network access to OSF networks and related AOC Information Technology (IT) capabilities (e.g., AOC Block 20).
 - b. New or upgraded OSF communications such as data transport over fiber optics, 5G connectivity, secure Wi-Fi, SATCOM via Starlink, etc.
 - c. Other AOC Enterprise comm-IT capabilities such as connectivity to the Mission Partner Environment for coalition support, Internet-based secure communication using Commercial Solutions for Classified (CSfC), support to Joint All Domain Command and Control (JADC2) operations using Multi-Level Security data transfer guards, etc.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
P-1 Line Item Number / Title: 835060 / Base Information Transpt Infrast (BITI) Wired
 Equip / BSA 5: Air Force Communications

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0303004F, 0303112F

Line Item MDAP/MAIS Code: N78

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	32.042	42.280	19.147	58.499	-	58.499	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	32.042	42.280	19.147	58.499	-	58.499	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	32.042	42.280	19.147	58.499	-	58.499	-	-	-	-	-	-

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

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

Description:

BASE INFORMATION TRANSPORT INFRASTRUCTURE (BITI), formerly known as INFORMATION TRANSPORT SYSTEM (ITS): BITI delivers base-level Air Force cyberspace network and integrated information infrastructure for Air Force installations (active duty, reserve, and Air National Guard (ANG)) and Geographically Separated Units (GSU) at approved locations. BITI capabilities encompass base level information transport systems (wired and wireless), digital voice/data/video systems, commercial device connectivity, Unified Capabilities (UC) and the systems to manage, protect and maintain these capabilities. BITI provides a robust and secure wireless infrastructure that incorporates high-availability and multi-tiered network connections at approved facilities to support mobile Airmen. Finally, BITI will have a consolidated cyber capability addressing emerging cyber threats to infrastructure. The end result is a unified high-speed packet switching and circuit transport system providing acceptable mission-defined user experience connectivity at point of mission need. The efforts in this program budget line, through its various increments and major projects and coupled with efforts of other Air Force IT portfolios, ensure the fielding, support and sustainment of standard, enterprise information transport systems while enabling the evolution of improvements that include, but are not limited to, data center consolidation, cloud based services, and mobile computing. As UC evolves, to include but not limited to voice, BITI will respond with expanded bandwidth to provide the necessary throughput.

BITI will ensure that Air Force operating locations have sufficient infrastructure, bandwidth, and overall network capability to support the current and future communication needs of the Air Force and Combatant Command warfighter via reliable and survivable information transport with sufficient capacity and capability to meet the classified and unclassified data, voice, video, imagery, and telemetry requirements at each installed location.

BITI Recapitalization: Replaces "backbone" infrastructure of network equipment on a routine basis for fielded Air Force installations (active duty, reserve, and Air National Guard (ANG)) and at approved GSUs. More comprehensive recapitalizations, including but not limited to BITI Reset, may be required as part of technology insertion to ensure the fielding, support and sustainment of standard, mission capable Enterprise IT transport to fulfill warfighter information needs. BITI Reset recapitalizations will increase data to decision speeds through, but not limited to, insertion of Flight Line of the Future (FLoF) mobile networking technologies and network management.

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

Funding for this exhibit is contained in PE 0303112F until FY 20. From FY 21 and onward funding will be contained in PE 033004F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force							Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications					P-1 Line Item Number / Title: 835060 / Base Information Transpt Infrast (BITI) Wired					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: 0303004F, 0303112F				
Line Item MDAP/MAIS Code: N78										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	32.705	19.147	56.499	-	56.499	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.575	-	1.375	-	1.375	-	-	-	-
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.625	-	0.625	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	42.280	19.147	58.499	-	58.499	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 835060 / Base Information Transpt Infrast (BITI) Wired Equip / BSA 5: Air Force Communications

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0303004F, 0303112F

Line Item MDAP/MAIS Code: N78

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / BITI Mod/Recaps (Capability Improvement)		A		- / 32.042	- / 42.280	- / 19.147	- / 58.499	- / 0.000	- / 58.499
P-40	Total Gross/Weapon System Cost				- / 32.042	- / 42.280	- / 19.147	- / 58.499	- / -	- / 58.499

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

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

Justification:
 BITI: FY22 funding includes, but is not limited to, implementation and upgrades to broadband, fiber-optic digital information transport networks to provide mission-critical information transfer capabilities at fixed Air Force bases (Active Duty, Air Force Reserve, and Air National Guard) and selected geographically separated unit locations. Procurement efforts include, but are not limited to, site surveys, installations, and interim contractor support (ICS).

 BITI Recapitalization: FY22 continues replacement of BITI on Air Force fielded systems.

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5	P-1 Line Item Number / Title: 835060 / Base Information Transpt Infrast (BITI) Wired	Modification Number / Title: 1 / BITI Mod/Recaps

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	32.042	42.280	19.147	58.499	0.000	58.499
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	32.042	42.280	19.147	58.499	0.000	58.499
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	32.042	42.280	19.147	58.499	0.000	58.499

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

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

Description:

BITI Recapitalization: FY18 - FY22 replaces BITI Turnkey fielded systems (which started in FY15 and completed in FY18) for approved Air Force installations.

NOTE: Direction in January 2016 was to begin reporting the modification effort for BITI on a P-3a exhibit starting for FY18 and beyond.

Milestone/Development Status

Sustainment

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	32.705	19.147	56.499	-	56.499
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	9.575	-	1.375	-	1.375
AFR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	0.625	-	0.625
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	42.280	19.147	58.499	0.000	58.499

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Exhibit P-3a, Individual Modification: PB 2022 Air Force						Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5			P-1 Line Item Number / Title: 835060 / Base Information Transpt Infrast (BITI) Wired			Modification Number / Title: 1 / BITI Mod/Recaps	
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Models of Systems Affected: BITI		Modification Type: Capability Improvement			Related RDT&E PEs: 0303004F, 0303112F		
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement							
<i>Modification Item 1 of 1:</i> BITI Recapitalization							
B Kits							
Recurring							
BITI Recapitalization:EQUIPMENT Group B (Active)	14 / 10.436	7 / 12.434	5 / 1.690	1 / 0.250	- / -	1 / 0.250	
BITI Recapitalization:EQUIPMENT Group B (Guard)	20 / 8.689	22 / 8.174	- / -	4 / 1.225	- / -	4 / 1.225	
BITI Recapitalization:EQUIPMENT Group B (Reserve)	0 / 0.000	- / -	- / -	2 / 0.525	- / -	2 / 0.525	
<i>Subtotal: Recurring</i>	- / 19.125	- / 20.608	- / 1.690	- / 2.000	- / -	- / 2.000	
<i>Subtotal: BITI Recapitalization</i>	- / 19.125	- / 20.608	- / 1.690	- / 2.000	- / -	- / 2.000	
<i>Subtotal: Procurement, All Modification Items</i>	- / 19.125	- / 20.608	- / 1.690	- / 2.000	- / -	- / 2.000	
Support (All Modification Items)							
GROUP B: TOTAL NONRECURRING	- / 0.384	- / -	- / -	- / 36.727	- / -	- / 36.727	
PMA - Other Gov't Costs	- / 0.763	- / 0.236	- / 0.727	- / 0.595	- / -	- / 0.595	
A&AS	- / 2.490	- / 10.197	- / 10.526	- / 11.467	- / -	- / 11.467	
PMA - Contractor Services	- / 5.729	- / 17.229	- / 5.781	- / 17.210	- / -	- / 17.210	
<i>Subtotal: Support</i>	- / 9.366	- / 17.662	- / 17.034	- / 55.999	- / -	- / 55.999	
Installation							
<i>Modification Item 1 of 1:</i> BITI Recapitalization	34 / 3.551	29 / 4.010	5 / 0.423	7 / 0.500	- / -	7 / 0.500	
<i>Subtotal: Installation</i>	34 / 3.551	29 / 4.010	5 / 0.423	7 / 0.500	- / -	7 / 0.500	
Total							
Total Cost (Procurement + Support + Installation)	32.042	42.280	19.147	58.499	0.000	58.499	

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Exhibit P-3a, Individual Modification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5	P-1 Line Item Number / Title: 835060 / Base Information Transpt Infrast (BITI) Wired	Modification Number / Title: 1 / BITI Mod/Recaps
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: BITI Recapitalization

Manufacturer Information

Manufacturer Name: TBD/Multiple	Manufacturer Location: TBD
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 0

Dates	FY 2020	FY 2021	FY 2022
Contract Dates	Dec 2020	Jul 2021	Dec 2021
Delivery Dates	Dec 2020	Jul 2021	Dec 2021

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	34 / 3.551	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	29 / 4.010	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	5 / 0.423	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	7 / 0.500	- / -	7 / 0.500
Total	34 / 3.551	29 / 4.010	5 / 0.423	7 / 0.500	- / -	7 / 0.500

Installation Schedule

	PYS	FY 2020				FY 2021				FY 2022			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
In	34	5	5	5	14	-	-	-	5	4	3	-	-
Out	4	7	7	7	9	10	5	7	7	-	-	5	4

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

P-1 Line Item Number / Title:
 835080 / AFNET

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0208088F, 0208099F, 0303089F, 0303112F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	72.596	131.063	84.515	65.354	-	65.354	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	72.596	131.063	84.515	65.354	-	65.354	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	72.596	131.063	84.515	65.354	-	65.354	-	-	-	-	-	-

(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:

These programs support Cyberspace Activities.

AFNet provides Commercial Off-The-Shelf (COTS) solutions to implement, deliver and upgrade installation processing nodes and boundaries, AF NIPRNet Gateways, Information Management Suite (IMS), SIPRNet C2 Nodes, Dual Path Resiliency (DPR) base boundary upgrades, enterprise network security, network situational awareness and C2 capabilities that allows for the interface with and assured movement of information from terrestrial, air and space-based networks, thus enabling Air Force Information Operations (AFINOps). All funds used for AFNet Systems support the continued establishment and transformation of the AFINOps construct toward the standards and specifications of the DoD Joint Information Environment (JIE). The procurement efforts in this program budget line include, but are not limited to, system equipment, engineering/integration, certification and accreditation, deployment, testing, training equipment/systems, associated training and interim contractor support. Procurements implement technology and capabilities within the AFNet in accordance with the DoD IT Roadmap, AF Information Dominance Flight Plan, AF Cyber Blueprint and the AF Network Action Plan. All activities may incorporate support to other program elements across the Air Force Information Enterprise in accordance with SAF/CIO direction, the Data Center Optimization Initiative (DCOI), previously known as the Federal Data Center Consolidation Initiative (FDCCI), and the JIE strategy.

PE 0208088F, AIR FORCE CYBERSPACE DEFENSE Weapon System (ACD)

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. Beginning in FY21, Other Procurement Funding for ACD realigns from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.

PE 0208099F, UNIFIED PLATFORM (UP)

Procures capabilities to provide the Cyber Mission Forces (CMFs), U.S. Cyber Command (USCYBERCOM), and AF Major Commands a joint cyber operations infrastructure capable of mission planning, data analytics, and decision support for the execution of full-spectrum cyberspace operations through tactical levels of warfare. Funds procure hardware necessary for the effective deployment of operational capability to the CMFs. Beginning in FY21, Other Procurement Funding for UP realigns from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.

PE 0303089F, CYBERSPACE OPERATIONS SYSTEMS

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		P-1 Line Item Number / Title: 835080 / AFNET
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0208088F, 0208099F, 0303089F, 0303112F
Line Item MDAP/MAIS Code: N/A		
<p>This PE executes requirements for both AFINC and CSCS weapon systems. Funds may be used for other AFNet requirements if required.</p> <p>(1) AIR FORCE INTRANET CONTROL (AFINC): Procures and installs equipment for network operations, network defense and overall management of the AF NIPRNet Gateways (GW), the Information Management Suite (IMS) and the base Service Delivery Point Routers as well as the Air Force discrete requirements associated with the Joint Regional Security Stacks (JRSS). Efforts include, but are not limited to: AFNet NIPR GW (MAC-1 system) and SIPR GW, which deliver critical network defense capabilities for the AF enterprise with more than 800k users directly supporting flying, maintenance, space and cyber operations across the full range of military operations. GWs prevent and detect unauthorized network infiltration attempts and automatically initiate network defense countermeasures to eliminate the adversary's ability to gain access to the enterprise. With the migration of all Air Force installations to JRSS the Air Force will decommission the GWs. The IMS provides the Air Force with secure, real time, out of band network management for the weapon system infrastructure and unifies the management/defense of AF networks and assets. Funding includes recapitalization of the IMS, Gateways, as well as procures equipment upgrades that directly relate to the migration of AF traffic and technology transition from the AFNet NIPR Gateways to the JRSS.</p> <p>(2) CYBERSPACE SECURITY AND CONTROL SYSTEM (CSCS): Procures and installs capabilities contributing to cyber mission assurance, including proactive defense and persistent network operations for the Air Force, the Air Force-provisioned portions of the DoD Information Network (DoDIN), and the Air Force Information Network (AFIN). CSCS modifications support the following activities: fault resolution to maintain operational capabilities; lead-in coordination activities at base-level Network Control Centers for necessary network security actions; monitoring of AF network services; managing of boundary protection devices and the Air Force network infrastructure; and continuous network situational awareness. Efforts include, but are not limited to: Data Center Consolidation and migration to the JIE; upgrade to the Core Services and the Air Force Vulnerability Management (AFVM) and Network Management.</p> <p>FY22 funds will procure modifications for CSCS and AFINC. CSCS includes, but is not limited to, Vulnerability Management, Area Processing Center and Regional Data Center Consolidations, Installation Service Nodes (ISNs), Installation Processing Nodes (IPNs), Active Directory Exchange (ADX), Host Based Security System (HBSS), Enclave NIPR Firewall and ASIM Sustainment (ENFASS)(previously under ACD) and base boundaries. AFINC includes, but is not limited to, Gateway e-mail security/DNS upgrades, Dual Path Resiliency, and SDP Router tech refresh.</p> <p>PE 0303228F, JOINT INFORMATION ENVIRONMENT (JIE)</p> <p>JIE is not a new start. This effort was previously funded under PE 0303089F and is now under PE 0303228F.</p> <p>JOINT INFORMATION ENVIRONMENT (JIE): This PE executes the requirements for JIE. Funds may be used for other AFNET requirements. DoD leadership has established and is tracking JIE implementation tasks that incrementally address diverse key categories that include but are not limited to: JRSS, Network Consolidation, Security, Enterprise Services, Application Rationalization, Enterprise Licensing, Mobility Service, Cloud Computing, and Installation types (e.g., Core Data Centers, Enterprise Operations Center, etc.). Much of the Increment 1 effort focuses on delivering and implementing reference and solution architectures and artifacts, developing TTPs needed to operate JIE capabilities (with global instantiation), defining and establishing an initial set of enterprise services, and establishing the governance processes critical to JIE management. Similar implementation tasks will be established for PACOM and CONUS during Increments 2 and 3 respectively. JIE funding may be used to maintain the current architecture of the AFNET while JIE implementation is ongoing.</p> <p>FY22 funds will be used to implement the federal and DoD CIO mandated Multiprotocol Label Switching (MPLS) Router Network Time Division Multiplexing (TDM) to Internet Protocol (IP) transition as well as tech refresh provider edge (PE) routers installed in 2016. The funding will also be used to fund AFNET network infrastructure, security, and enterprise services initiatives that will ensure AF compliance and supportability of DoD cloud initiatives.</p> <p>Funding for this exhibit is contained in PEs 0303089F and 0303228F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 835080 / AFNET
Equip / BSA 5: Air Force Communications

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0208088F, 0208099F, 0303089F, 0303112F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	AF Defensive Cyberspace Operations				- / 30.044	- / 16.883	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40a	Unified Platform (UP)				- / -	- / 4.963	- / -	- / -	- / -	- / -
P-3a	1 / AFINC/CSCS WS 0303089 (Reliability & Maintainability)		A		- / 42.552	- / 109.217	- / 84.515	- / 65.354	- / 0.000	- / 65.354
P-40	Total Gross/Weapon System Cost				- / 72.596	- / 131.063	- / 84.515	- / 65.354	- / -	- / 65.354

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

Justification:
 These programs support Cyberspace Activities.

FY22 AFNET (835080) funding provides for, but is not limited to, procurement and transformation of the installed and supported critical classified and unclassified information equipment capabilities for the Air Force Network (AFNet) Systems, modification efforts within two cyber weapon systems (AFINC & CSCS), and transformation/establishment of AFINOps to DoD JIE standards and specification. CSCS includes, but is not limited to, Vulnerability Management, Area Processing Center and Regional Data Center Consolidations, Installation Service Nodes (ISNs), Installation Processing Nodes (IPNs), Active Directory Exchange (ADX), Host Based Security System (HBSS), Enclave NIPR Firewall and ASIM Sustainment (ENFASS)(previously under ACD) and base boundaries. AFINC includes, but is not limited to, Gateway e-mail security/DNS upgrades, Dual Path Resiliency, and SDP Router tech refresh.

PE 0208088F, AF DEFENSIVE CYBERSPACE OPERATIONS (ACD)
 Beginning in FY21, Other Procurement Funding for ACD realigns from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.

PE 0208099F, UNIFIED PLATFORM (UP)
 Beginning in FY21, Other Procurement Funding for UP realigns from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.

PE 0303089F, CYBERSPACE OPERATIONS SYSTEMS
 (1) AFINC: Procures and installs equipment for network operations, network defense and overall management of the AF NIPRNet Gateways as well as the Air Force discrete requirements associated with the Joint Regional Security Stacks (JRSS).
 (2) CSCS: Procures and installs capabilities contributing to cyber mission assurance, including proactive defense and persistent network operations for the Air Force and the Air Force-provisioned portions of the DoD Information Network (DoDIN) and the Air Force Information Network (AFIN).

PE 0303228F, JOINT INFORMATION ENVIRONMENT (JIE)
 JIE is not a new start. This effort was previously funded under PE 0303089F and is now under PE 0303228F. No Budget Year FY2020 funding was requested.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		P-1 Line Item Number / Title: 835080 / AFNET
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0208088F, 0208099F, 0303089F, 0303112F

Line Item MDAP/MAIS Code: N/A

(1) JIE: Procures end items to support AF JIE implementation tasks that incrementally address key categories which include but are not limited to: JRSS, Network Consolidation, Security, Enterprise Services, Application Rationalization, Enterprise Licensing, Mobility Service, Cloud Computing, and Installation Types. JIE funding may be used to maintain the current AFNET architecture while JIE implementation is ongoing.

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 **P-1 Line Item Number / Title:** 835080 / AFNET **Aggregated Modification Items Title:** AF Defensive Cyberspace Operations

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Mod 1 0208088F / ACD WS 0208088F			-	-	30.044	-	-	16.883	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	30.044	-	-	16.883	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
Mod 1 0208088F / ACD WS 0208088F	ACD	Reliability & Maintainability

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5	P-1 Line Item Number / Title: 835080 / AFNET	Aggregated Items Title: Unified Platform (UP)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Unified Platform PE 28099F																				
Unified Platform (UP)	A		-	-	-	2.482	2	4.963	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Unified Platform PE 28099F			-	-	-	-	-	4.963	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	4.963	-	-	-	-	-	-	-	-	-	-	-	

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

Remarks:
Beginning in FY21, Other Procurement Funding for Unified Platform (UP) realigns from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5	P-1 Line Item Number / Title: 835080 / AFNET	Modification Number / Title: 1 / AFINC/CSCS WS 0303089

ID Code (A=Service Ready, B=Not Service Ready) : A			MDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	42.552	109.217	84.515	65.354	0.000	65.354
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	42.552	109.217	84.515	65.354	0.000	65.354
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	42.552	109.217	84.515	65.354	0.000	65.354
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-

Description:

PE 0303089F, CYBERSPACE OPERATIONS SYSTEMS

This PE executes requirements for both AFINC and CSCS weapon systems. Funds may be used for other AFNet requirements if required.

(1) AIR FORCE INTRANET CONTROL (AFINC): Procures and installs equipment for network operations, network defense and overall management of the AF NIPRNet Gateways (GW), the Information Management Suite (IMS) and the base Service Delivery Point Routers as well as the Air Force discrete requirements associated with the Joint Regional Security Stacks (JRSS). Efforts include, but are not limited to: AFNet NIPR GW (MAC-1 system) and SIPR GW, which deliver critical network defense capabilities for the AF enterprise with more than 800k users directly supporting flying, maintenance, space and cyber operations across the full range of military operations. GWs prevent and detect unauthorized network infiltration attempts and automatically initiate network defense countermeasures to eliminate the adversary's ability to gain access to the enterprise. With the migration of all Air Force installations to JRSS the Air Force will decommission the GWs. The IMS provides the Air Force with secure, real time, out of band network management for the weapon system infrastructure and unifies the management/defense of AF networks and assets. Funding includes recapitalization of the IMS, Gateways, as well as procures equipment upgrades that directly relate to the migration of AF traffic and technology transition from the AFNet NIPR Gateways to the JRSS.

(2) CYBERSPACE SECURITY AND CONTROL SYSTEM (CSCS): Procures and installs capabilities contributing to cyber mission assurance, including proactive defense and persistent network operations for the Air Force, the Air Force-provisioned portions of the DoD Information Network (DoDIN), and the Air Force Information Network (AFIN). CSCS modifications support the following activities: fault resolution to maintain operational capabilities; lead-in coordination activities at base-level Network Control Centers for necessary network security actions; monitoring of AF network services; managing of boundary protection devices and the Air Force network infrastructure; and continuous network situational awareness. Efforts include, but are not limited to: Data Center Consolidation and migration to the JIE; upgrade to the Core Services and the Air Force Vulnerability Management (AFVM) and Network Management.

FY22 funds will procure modifications for CSCS and AFINC. CSCS includes, but is not limited to, Vulnerability Management, Area Processing Center and Regional Data Center Consolidations, Installation Service Nodes (ISNs), Installation Processing Nodes (IPNs), Active Directory Exchange (ADX), Host Based Security System (HBSS), Enclave NIPR Firewall and ASIM Sustainment (ENFASS)(previously under ACD) and base boundaries. AFINC includes, but is not limited to, Gateway e-mail security/DNS upgrades, Dual Path Resiliency, and SDP Router tech refresh.

Milestone/Development Status

Sustainment

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Exhibit P-3a, Individual Modification: PB 2022 Air Force					Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5			P-1 Line Item Number / Title: 835080 / AFNET		Modification Number / Title: 1 / AFINC/CSCS WS 0303089	
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:		
Models of Systems Affected: AFINC-CSCS-WS		Modification Type: Reliability & Maintainability			Related RDT&E PEs: 0303112F	
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement						
<i>Modification Item 1 of 1:</i> AFINC/CSCS WS MODs						
B Kits						
Recurring						
AFINC/CSCS WS MODs:EQUIPMENT Group B (Active)	1 / 31.850	1 / 92.315	1 / 72.779	1 / 53.255	- / -	1 / 53.255
<i>Subtotal: Recurring</i>	- / 31.850	- / 92.315	- / 72.779	- / 53.255	- / -	- / 53.255
<i>Subtotal: AFINC/CSCS WS MODs</i>	- / 31.850	- / 92.315	- / 72.779	- / 53.255	- / -	- / 53.255
<i>Subtotal: Procurement, All Modification Items</i>	- / 31.850	- / 92.315	- / 72.779	- / 53.255	- / -	- / 53.255
Support (All Modification Items)						
GROUP B: TOTAL NONRECURRING	- / 0.000	- / 0.000	- / -	- / 0.000	- / -	- / 0.000
PMA - Contractor Services	- / 9.308	- / 16.206	- / 11.157	- / 11.543	- / -	- / 11.543
PMA - Other Gov't Costs	- / 1.394	- / 0.696	- / 0.579	- / 0.556	- / -	- / 0.556
<i>Subtotal: Support</i>	- / 10.702	- / 16.902	- / 11.736	- / 12.099	- / -	- / 12.099
Installation						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)	42.552	109.217	84.515	65.354	0.000	65.354

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5		P-1 Line Item Number / Title: 835080 / AFNET	
Modification Number / Title: 1 / AFINC/CSCS WS 0303089		ID Code (A=Service Ready, B=Not Service Ready) : A	
		MDAP/MAIS Code:	
Modification Item 1 of 1: AFINC/CSCS WS MODs			
Manufacturer Information			
Manufacturer Name: Multiple		Manufacturer Location: Various	
Administrative Leadtime (in Months): 7		Production Leadtime (in Months): 12	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates	May 2020	May 2021	May 2022
Delivery Dates	May 2021	May 2022	May 2023
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 8	

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:**
 835110 / Joint Communications Support Element (JCSE)
 Equip / BSA 5: Air Force Communications

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	6.505	6.185	4.377	-	4.377	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	6.505	6.185	4.377	-	4.377	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	6.505	6.185	4.377	-	4.377	-	-	-	-	-	-

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

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

Description:

JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE): JCSE, assigned under Joint Enabling Capabilities Command, US Transportation Command, is the only joint Department of Defense (DoD) unit specifically formed to provide command, control, communications, and computers (C4) systems support for Joint Chiefs of Staff (JCS) contingency operations worldwide. The Joint Communications Support Element (JCSE) mission is to provide, on short notice, those critical communications required to support Joint Task Force support (JTF) and Joint Special Operations Task Force (JSOTF) headquarters. These assets support the warfighter's ability to deploy rapidly and immediately provide the positive command and control required. This support includes contingency and crisis communications for the Joint Chiefs of Staff, Combatant Commands, Services, Defense agencies, non-Defense agencies, and foreign governments. Program goals include meeting emerging real-world operational requirements with the maximum capabilities, smallest footprint, lowest operations and maintenance costs, and seamless integration with the global information grid. Per Defense Planning Guidance (DPG) and Director, Joint Staff Memorandum (DJSJM) 0148-20, the Air Force is mandated to fund 1/3rd fair share of JCSE's validated Modernization Program.

Funding for this exhibit is contained in PE 0207422F, Deployable Command, Control, and Communications (C3) Systems.

Justification:

JCSE: FY22 base funding procures communications equipment based on Strategic Planning Guidance. This includes the maximum capabilities for narrowband, wideband and protected satellite communications (SATCOM) terminals and systems, tactical radios, terrestrial communications systems, satellite hubs, networking elements, virtual appliances, Video Teleconferencing (VTC) capabilities, alternative power solutions, Airborne /En-Route, Forced Entry, Cyber Security, and Mobile Joint C2 equipment. Advancements in technology have provided opportunities to modernize current equipment sets with enhanced capabilities to meet the program goals which include meeting emerging real-world operational and cyber defense requirements with maximum capabilities, the smallest possible footprint, lowest operations and maintenance costs, and seamless integration with the global information grid. This equipment is a critical part of Command, Control and Communications packages that provide direct operational support to joint forces and HQ elements deployed to austere locations around the globe. Per the Planning Guidance, the Air Force is mandated to fund one-third of the fair share of JCSE's validated equipment modernization plan. JCSE's Program is built/restructured based on Combatant Command (CCMD) and Service Components' requirements and emerging technologies. The Services influence JCSE's spending plan through recommendations in concert with Major Defense Acquisition Program (MDAP) schedules, ensuring that Service dollars meet Joint Service requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
P-1 Line Item Number / Title: 835140 / USCENTCOM
 Equip / BSA 5: Air Force Communications

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	20.190	19.649	18.101	-	18.101	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	20.190	19.649	18.101	-	18.101	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	20.190	19.649	18.101	-	18.101	-	-	-	-	-	-

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

Initial Spares (<i>\$ in Millions</i>)	-	1.000	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

PE 0201122F USCENTCOM COMMUNICATIONS

HQ USCENTCOM's mission is to work with its national and international partners in promoting development and cooperation among nations, responding to crises, and deterring or defeating state and transnational aggression in order to establish regional security and stability across its entire Area of Responsibility (AOR). Since USCENTCOM's AOR, covering the Middle East, includes the challenges of regional stability and violent extremists, this Combatant Command's mission is critical in regards to the Overseas Contingency Operations (OCO). To meet its mission responsibilities across this geographical expanse, HQ USCENTCOM must rely heavily on Command, Control, Communications, and Computer (C4) systems capable of achieving full spectrum information superiority.

Funding for this effort is contained in PE 0201122F USCENTCOM Communications.

USCENTCOM COMMAND AND CONTROL SYSTEMS: Effort will provide end of life replacement for, but not limited to, Command and Control (C2) systems (thin client, server, etc), Joint Information Environment (JIE), classified and unclassified voice, data and video dissemination, storage area network (SAN) infrastructure, establishment of mission partner networks such as but not limited to; CENTCOM Partner Network (CPN), CENTCOM Partner Network Extended (CPN-X), Mission Partner Environment Information System (MPE-IS), and other coalition partner networks which provide secure networks for bilateral / multilateral information sharing up to the SECRET RELEASABLE level. Additionally, enable emerging technologies associated with transition of capabilities to the cloud and in conjunction with DoD Joint Information Enterprise. Migrate to Federated DoD Office 365 Cloud to streamline IT management across users, devices, apps, and services, integrating with infrastructure and enabling IT to consolidate and simplify without losing control of your environment. Support maximum data storage capacity requirements for HQ war records collection, and uninterrupted power supply (UPS) required for the command's collateral classified and unclassified data networks. This equipment provides HQ USCENTCOM with effective C4 systems to effectively conduct current and future operations throughout the AOR.

PE 0201131F Service Support To USCENTCOM Communications (SVC SPT USCENTCOM COMMS)

Service Support To USCENTCOM Communications formerly known as Air Forces United States Central Command (AFCENT) is the ACC component designated to support USCENTCOM operations in deployed theaters for the AF. Funds C4 systems throughout the area of responsibility (AOR). Procurement efforts include: communications infrastructure requirements, satellite terminal equipment, data network servers and associated information assurance tools, information transfer nodes and routers, joint radio relays, as well as deployed air traffic control and landing systems and navigational aid systems. SVC SPT USCENTCOM COMMS funds/support our portion of CENTCOM directed mission partner initiatives such as CPN X to ensure interoperability.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		P-1 Line Item Number / Title: 835140 / USCENTCOM
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		

Funding for this effort is contained in PE 0201131F SVC SPT USCENTCOM COMMS

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 835140 / USCENTCOM
Equip / BSA 5: Air Force Communications

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	USCENTCOM Communications				- / -	- / 4.720	- / 4.592	- / 4.231	- / -	- / 4.231
P-40a	Service Support to USCENTCOM - Communications				- / -	- / 15.470	- / 15.057	- / 13.870	- / -	- / 13.870
P-40	Total Gross/Weapon System Cost				- / -	- / 20.190	- / 19.649	- / 18.101	- / -	- / 18.101

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

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

Justification:
 PE 0201122F USCENTCOM COMMUNICATIONS

USCENTCOM COMMAND AND CONTROL SYSTEMS: FY22 funding will procure C4 equipment items required for HQ USCENTCOM, MacDill AFB, FL, Disaster Recovery Site (Site X), Joint Base San Antonio COOP Site, and CENTCOM Forward HQ at Al Udeid, Qatar, to effectively conduct communications support missions impacting Command and Control (C2) and operational missions conducted by the Commander and staff. The C4/Information Technology (IT) supporting the command must be replaced to meet the ever increasing demands of current, ongoing contingency operations, and the growth of data storage requirements. The CPN-X supports both the changing mission release environment and satisfies both DoD Manual 5200.01 Information Security Program and DoD Instruction 52011.01 Information Security Program and Protection of Sensitive Compartmental Information.

PE 0201131F SVC SPT USCENTCOM COMMUNICATIONS FY22 funds will provide:

BASE COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, AND INTELLIGENCE (C4I) INFRASTRUCTURE. This FY22 effort will support communications CENTCOM Theater Posture Plan (TPP) locations identified for post OEF support. This effort is required at several SVC SPT USCENTCOM COMMUNICATIONS locations in the AOR and will provide critical infrastructure to support the transition to the Joint Information Environment, as required by DoD CIO mandate. Mode 5 mandate requires AFCENT obtain transition devices for theater radars to ensure proper C2. Developing infrastructure must be funded to support counter Unmanned Aircraft System technologies and new technologies for air domain awareness. Replacement for aged Air Traffic Control And Landing Systems equipment is required.

Southwest Asia - THEATER ENTERPRISE REQUIREMENTS - SVC SPT USCENTCOM COMMS must procure new system to support contingency operations and base opening/closure requirements, which average 2 base openings and closing per year regardless of new or ongoing contingencies. A new Jordanian Base (MSAB) has been added to the enduring base list and commercialization projects are underway to complete transition from tactical support to enduring infrastructure.

JOINT INFORMATION ENVIRONMENT: Implementation of JIE at MacDill AFB with SAF/AA establishing a global node at HQ USCENTCOM. HQ USCENTCOM will collaborate with the DoD stakeholder community to implement the Joint Information Environment to include cloud infrastructure and digital transformation capabilities.

FY22 effort will continue to support infrastructure and services essential secure networks for bilateral and multilateral information up to the secret releasable level. Support the networks and cross domain solution necessary to securely and safely integrate coalition sensors and C2 capabilities with C2 efforts. Includes integration of Coalition operations into our Combined Air Operations Center at Al Uedied AB

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 **P-1 Line Item Number / Title:** 835140 / USCENTCOM **Aggregated Items Title:** USCENTCOM Communications

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
USCENTCOM COMMAND AND CONTROL SYSTEM	A		-	-	-	4.720	1	4.720	4.592	1	4.592	4.231	1	4.231	-	-	-	4.231	1	4.231
Subtotal: Uncategorized			-	-	-	-	-	4.720	-	-	4.592	-	-	4.231	-	-	-	-	-	4.231
Total			-	-	-	-	-	4.720	-	-	4.592	-	-	4.231	-	-	-	-	-	4.231

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

Remarks:
 USCENTCOM: FY22 procurement funds in the amount of \$4.276M will procure C4 equipment items required for HQ USCENTCOM, MacDill AFB, FL and CENTCOM Forward HQ at Al Udeid, Qatar. Funding is vital to effectively conduct communications support missions impacting Command and Control (C2) and operational missions conducted by the Commander and staff supporting the Command's CONPLAN/OPLANS. The C4/Information Technology (IT) supporting the command must be replaced to meet the ever increasing demands of enduring operations and the growth of data storage requirements, as well as emergent cyber threats.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5							P-1 Line Item Number / Title: 835140 / USCENTCOM								Aggregated Items Title: Service Support to USCENTCOM - Communications				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Deployable Tactical Air Navigation (DTACAN)	A		-	-	-	4.853	1	4.853	4.850	1	4.850	4.850	1	4.850	-	-	-	4.850	1	4.850
BASE C4I SUPPORT	A		-	-	-	0.406	4	1.624	0.406	4	1.624	0.406	4	1.624	-	-	-	0.406	4	1.624
SWA-THEATER ENTERPRISE REQUIREMENTS	A		-	-	-	8.993	1	8.993	8.583	1	8.583	7.396	1	7.396	-	-	-	7.396	1	7.396
JOINT INFORMATION ENVIRONMENT CAPABILITIES	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFCENT PMA Other Government Costs	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFCENT PMA Contract Service	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	15.470	-	-	15.057	-	-	13.870	-	-	-	-	-	13.870
Total			-	-	-	-	-	15.470	-	-	15.057	-	-	13.870	-	-	-	-	-	13.870

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:**
 835160 / USSTRATCOM
 Equip / BSA 5: Air Force Communications

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	11.327	4.337	4.226	-	4.226	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	11.327	4.337	4.226	-	4.226	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	11.327	4.337	4.226	-	4.226	-	-	-	-	-	-

(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 USSTRATCOM COMMAND AND CONTROL FACILITY (C2F) IT Enterprise will incorporate all facets of the previously reported within PE 0303255F, USSTRATCOM C2 SYSTEMS LIFECYCLE HARDWARE MANAGEMENT (old C2 Modernization), ANALYSIS AND TARGETING, and FORCE SURVIVABILITY, ANALYSIS, AND MANAGEMENT SYSTEM (FSAM). The USSTRATCOM REPLACEMENT FACILITY FIT-OUT program does not have funding in FY20. All programs and systems will now ride on enterprise infrastructure, and be reported under BPAC 835160 PE 11301F, except the GDC2 program. It will continue to be reported under PE 0303255F, but is a separate program included in BPAC 835160.

This is not a new start.

a. USSTRATCOM C2 SYSTEMS LIFECYCLE HARDWARE MANAGEMENT: This effort provides the C2 infrastructure and hardware to acquire, process, and deliver information, as needed, to enhance decision making for USSTRATCOM. This effort employs a set of underlying information services, technologies, and tools that enable the Commander of USSTRATCOM to achieve broad operational warfighting capabilities. The C2F IT Enterprise adds capability as it builds to a final architecture. The cyber architecture is a collection of distributed databases and applications, integrated through a grid of supporting services. This effort was previously referred to as "C2 Modernization and reported under BPAC 833140, PE 0303255F and is NOT a new start.

Beginning in FY20 this program will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160, PE 0101301F

b. ANALYSIS AND TARGETING - JOINT WARFARE ANALYSIS CENTER (JWAC): effort provides the hardware that enables the JWAC to develop and recommend strategic technical solutions. JWAC coordinates directly with the staffs of all Unified Commands, Department of Defense (DoD) elements, Combatant Commands, military services, and other government departments and agencies to respond to crises.

Beginning in FY20 this program will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160, PE 0101301F

c. FORCE SURVIVABILITY, ANALYSIS, AND MANAGEMENT: Provides a decision support system and is designed to provide the commander with Force Management (pre attack) and Force Survival (post attack) information needed to ensure survival of strategic forces. Provides the commander vital decision making data by correlating strategic force status reported by Force Status Reporting (FSR) with missile attack warning information. Processing and Display Subsystem - Migration (PDS-M) will continue to provide the commander with missile attack warning information

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications		P-1 Line Item Number / Title: 835160 / USSTRATCOM
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		
Beginning in FY20 this program will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160, PE 0101301F		
d. GLOBAL DISTRIBUTED COMMAND AND CONTROL (GDC2): Detailed information is classified and will be provided on a need to know basis. For further information please contact the Strategic C2 Systems Branch (SAF/AQID) at (202) 404-3405. This effort will not be reported as part of the IT Enterprise. GDC2 will continue to be reported under PE 0303255F within BPAC 835160		
e. USSTRATCOM REPLACEMENT FACILITY FIT-OUT: No funding in FY20 and out		
Justification: USSTRATCOM IT Enterprise - This effort provides the Command and Control infrastructure and hardware to acquire, process, and deliver information, as needed, to enable and enhance decision making for USSTRATCOM. USSTRATCOM is tasked with vital roles for our nation. These roles require secure and survivable infrastructure in order to conduct strategic planning, warfighting operations, provide global situational awareness to the National Command Authorities and Combatant Commands, aid the President's nuclear response decision-making process. This effort employs a set of underlying information services, technologies, and tools to ensure a standard configuration of information technology architecture that operationalizes USSTRATCOM's mission priorities, with a Combat-Ready Force prepared for Decisive Response. The enterprise architecture is a collection of distributed databases and applications, integrated through a cloud-based infrastructure. The facility includes features and capabilities such as secure High-Altitude Electromagnetic Pulse (HEMP) Shielded Command and Control Center, Installation Processing Node, multiple 24/7 mission operations centers, storage and maintenance areas, labs/workrooms, backup generators, Uninterruptible Power Source, and Technical Control Facility.		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base **P-1 Line Item Number / Title:** 837100 / Tactical C-E Equipment

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207422F, 0207444F, 0503133F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	130.293	132.733	162.955	-	162.955	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	130.293	132.733	162.955	-	162.955	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	130.293	132.733	162.955	-	162.955	-	-	-	-	-	-

(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:

FY20 funding totals include 0.306 appropriated for Overseas Contingency Operations in PE 0408011F, Special Tactics/Combat Control.

PE 0207418F AFSPECWAR - TACP

PE 0207418F TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT: FY22 funding provides for fielding 30 digitally aided CAS kits for integration into the simulator to maximize the mirroring of real world training in the simulated environment. FY22 funding will furthermore be used to purchase JTC-TRS Desktops:

- 4 for ACC to replace the 4 repurposed desktops to bring the new JTAC Formal Training Unit to IOC.

- 7 desktops for AFSOC and USAFE to maximize JTAC/CCT participation in the AF Operational Training Infrastructure, Special Operations Forces Training Enterprise Network (STEN), and the larger DoD and NATO Modeling and Simulation Enterprises.

JTC-TRS Desktop systems could not be procured in FY 21 as a result of the prime contractor being legally suspended due to contract fraud. Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

PE 0207422F Deployable C3 Systems
Deployable C3 Systems PE 0207422F

PE 0207422F DEPLOYABLE COMMAND, CONTROL, and COMMUNICATIONS (C3) SYSTEMS

THEATER-DEPLOYABLE COMMUNICATIONS (TDC) PROGRAM: TDC is used to extend network data, voice and video services to expeditionary and battlefield forces. The TDC system provides stand-alone communications support for the full range of military operations and communications capability for Command and Control (C2) reach back at and above the tactical level for a variety of Air Force missions. TDC provides a rapidly deployable communication infrastructure package, which provides deployed users with secure and non-secure voice service, internet access, local area network, network management, information assurance, e-mail services (NIPR/SIPRNET), and intra/inter-base connectivity services similar to those established on a fixed base. The TDC packages: Small Communication Package (SCP), Medium Communication Package(MCP), Large Communication Package(LCP)use commercial-off-the-shelf (COTS) components to support a wide scope of expeditionary missions ranging from a small C2 and airfield mission, supporting 1 to 150 users, and up to the stand-up of an Air Expeditionary Wing supporting 3,000 users. The TDC packages also support Special Missions, to include noncombatant evacuation and disaster relief efforts, US Secret Service support, and Homeland Defense Operations. The LCP and MCP mission packages are being restructured into a more scalable package, the Flexible

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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>Communications Package (FCP), which will provide a range of support for most all missions. The Air Force's new adaptive basing concept requires an increase in the number of packages needed to meet the mission. The quantity of FCPs is significantly more than the MCP and LCP quantities. The FCP consists of SATCOM, Integrated Communications Package (ICAP) and Network Control Center- Deployed (NCC-D) components. The SCP version 2 will replace the Communication Fly away kit and the present SCP. It will consist of ICAP equipment and additional funding will be used to accelerate the procurement and fielding of this Agile Combat Employment capable product.</p> <p>The TDC program reached full operational capability in 2008. TDC procures and installs end of life/end of support equipment to maintain full operational capability. Recapitalization addresses Diminishing Manufacturing Sources (DMS) issues associated with COTS components and ensures TDC maintains compliance with security mandates/directives and cryptographic standards.</p> <p>THEATER-DEPLOYABLE COMMUNICATIONS (TDC) procurements consist of ICAP, SATCOM, and NCCD components. Recapitalization cost is based on the quantity of equipment, number of users they support, and the configurations of the three components. Size of recapitalization packages vary from year to year.</p> <p>a. SATCOM (formerly HUB AND SPOKE SATELLITE TERMINALS): Satellite terminals provide two-way communications connectivity between expeditionary bases and reach back, through Defense Information System Agency (DISA) gateways/teleports, to the global information grid. These terminals provide DOD X and Ka Band (Super High Frequency) resources and provide access to Ku band commercial satellite services. TDC's Small and Medium Satellite terminals 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. The services provided through NCC-D are the core services to the communication hub and these Core Services will be the focus of the Flexible Communications Package (FCP).</p> <p>DEPLOYABLE AIR FORCE LEAD Joint Task Force (JTF) Communications Equipment: PAD D-18-01 directed the establishment of a standing capacity to provide Combatant Commanders and Air Force, unit-based capability to command and lead the core functions of any JTF. The JTF capable HQ aligned against the Global Response Force must be a deployable communications equipment system that enables the HQ to an adaptive, agile, scale-able, and responsive force. The JTF HQ communication package is to deliver the ability to operate with a relatively small footprint, to provide globally-oriented C2 capabilities, to flexibly aggregate and disaggregate forces quickly and efficiently, to integrate multi-domain effects across the spectrum of conflict and afford the service an opportunity to develop solutions that are informed from a unique perspective.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>Funding for this exhibit contained in PE 0207422F.</p> <p>PE 0207423F Advanced Communications Systems Advanced Communications Systems PE 0207423F PE 0207423F Mobile User Objective System (MUOS) and TACTICAL RADIO SYSTEMS (TRS) Tactical Radio System (TRS) are commercial off the shelf software programmable tactical radios that provide voice, data, and video communications for military users in the air, on the ground, and at sea.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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		

Common radio architecture and programmable software waveforms will provide joint interoperability between the services. The TRS 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.

PE 0207444F Tactical Air Control Party-Mod
TACTICAL AIR CONTROL PARTY-MODERNIZATION (TACP-M) ACQUISITION CATEGORIES: TACTICAL AIR CONTROL PARTY-MODERNIZATION (TACP-M) ACQUISITION CATEGORIES: FY22 funding will procure Initial Contractor Support (ICS) for TACP Transportable Gateways (along with training), 116 vehicle mobile communication systems (MCS) (5 AMPVs, 18 Blk 2 1165 HMVVs, 93 Blk 4 JLTVs), 163 PRC-160 HF radios, 83 handheld Link 16 for contested communications operations, Navy Crane contract support for MCS and TTG/ITG integration and fielding, system modelling, program management and cyber security TACP logistics support agency.

PE 0408011F Special Tactics / Combat Control

SPECIAL WARFARE ACQUISITION GROWTH AND REFRESH (SWAGR): Program name was changed from BATTLEFIELD AIRMEN OPERATIONS KIT (BAO Kit) to SPECIAL WARFARE ACQUISITION GROWTH AND REFRESH (SWAGR) to reflect the scope of the new AFSOC Capabilities Development Document (CDD) managing the program. SWAGR will deliver a Family of Systems (FoS) that provides a state-of-the-art Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance (C4ISR) and also provides a family of systems for all Air Force Specialty Codes supporting the Special Tactics (ST) community within the Air Force Special Operations Command's (AFSOC's) Battlefield Airmen Program. This program will procure and enhance technologies for battlefield airmen ST operators that are inter-operable with US and coalition special operations dismounted forces. SWAGR allows the ability to recognize, identify, range, nominate, and designate targets during both day and night. SWAGR 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. SWAGR 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. SWAGR also supports AFSOC Tactical Command and Control (TAC C2) program purchases enhanced communication systems and equipment essential for ST combat controllers, pararescue, combat weather operators, and tactical air control parties to perform their mission and communicate Beyond Line of Site (BLOS) with rear echelon C2, in order to provide a joint operating picture. The ST operators use this equipment to gather and transmit assault zone suitability and weather data and to perform tactical airfield/assault landing/drop zone operations. Items include but not limited to training, initial spares, repairs and returns, and other equipment. Funding for this exhibit contained in PE 0408011F.

PE 0503133F Combat Rescue - Pararescue (AFR)

Tactical communications and electrical equipment in support of special operations forces. No funding for FY21.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	2,438	228	86	0	86	-	-	-	-
	Total Obligation Authority	107.657	103.445	123.439	0.000	123.439	-	-	-	-
AFNG	Quantity	49	206	45	0	45	-	-	-	-
	Total Obligation Authority	18.901	23.824	32.802	0.000	32.802	-	-	-	-
AFR	Quantity	9	43	6	0	6	-	-	-	-
	Total Obligation Authority	3.735	5.464	6.714	0.000	6.714	-	-	-	-
Total:	Quantity	2,496	477	137	0	137	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondary Distribution	Total Obligation Authority	130.293	132.733	162.955	0.000	162.955	-	-	-	-

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UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications **P-1 Line Item Number / Title:** 837100 / Tactical C-E Equipment
Equip / BSA 7: Organization and Base

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207422F, 0207444F, 0503133F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	AFSPECWAR - TACP		A		- / -	- / 3.870	- / 1.539	- / 3.961	- / -	- / 3.961
P-40a	Deployable C3 Systems				- / -	- / 45.835	- / 45.677	- / 57.305	- / -	- / 57.305
P-40a	Advanced Communications Systems				- / -	- / 6.297	- / 6.403	- / 11.353	- / -	- / 11.353
P-5	Tactical Air Control Party-Mod		A		- / -	- / 35.967	- / 50.093	- / 52.200	- / -	- / 52.200
P-5	Special Tactics / Combat Control	P-5a	A		- / -	2,392 / 38.324	- / 29.021	- / 38.136	- / -	- / 38.136
P-40	Total Gross/Weapon System Cost				- / -	- / 130.293	- / 132.733	- / 162.955	- / -	- / 162.955

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

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

Justification:

PE 0207418F TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT (TASC)

TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT (TACS): FY22 funding provides for fielding of Digitally Aided CAS. Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

PE 0207422F Deployable C3 Systems

FY22 ICAP-36, NCCD-98, SATCOM-1

AD: 3, 80, 1
 ANG: 27, 18, 0
 ARC: 6, 0, 0

PE 0207423F Advanced Communications Systems

FY22 - 670 MUOS waveforms, 18 AN/PRC-117G radios, 18 PRC-117G battery eliminators and 15 MUOS training events.

PE 0207444F TACTICAL AIR CONTROL PARTY-MOD

TACTICAL AIR CONTROL PARTY-MODERNIZATION (TACP-M) ACQUISITION CATEGORIES: FY22 funding will procure Initial Contractor Support (ICS) for TACP Transportable Gateways (along with training), 123 vehicle mobile communication systems (MCS) (5 x AMPV, 25 Blk 2 x 1165 HMV/VW, 93 Blk 4 x JLTV), 205 PRC-160 HF radios, Navy Crane contract support for MCS and TTG/ITG integration and fielding, system modelling, program management and cyber security TACP logistics support agency, and 46 handheld Link 16 for contested communication operations.

The ASOC modernization effort is comprised of several COTs/GOTs products currently available to support further integration efforts to meet requirements and gain valuable feedback from other TACP-M programs, Innovation sites and the UES.

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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		
PE 0408011F Special Tactics / Combat Control		
<p>FY22 funding will procure 280 radios (HF, HH, MP, HHL-16) with associated operational control systems including End User Devices loaded/configured with dismounted operator software, antennas, power generation and COMSEC equipment and 6 sUAS tethered communication relay systems; 529 visual augmentation systems (target markers/designators/illuminators, GPS, augmented reality, laser range finders); program management and contract support; inventory control; 8 assault zone kits (penetrometers, lights, meteorological sensors, sUAS survey); 55 reconnaissance kits/sensors (avalanche, upper air, riverine/ oceanographic, meteorological, ISR).</p> <p>Items requested in FY22 as identified on the P-5 Exhibit are representative but not limited to the items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. 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>		

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment	Item Number / Title [DODIC]: AFSPECWAR - TACP

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	3.870	1.539	3.961	-	3.961
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	3.870	1.539	3.961	-	3.961
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	3.870	1.539	3.961	-	3.961

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - TACP Fixed Simulator - JTC TRS Cost																		
Recurring Cost																		
TACP Fixed Simulators - JTC TRS	-	-	-	-	-	0.000	-	-	0.000	1.563	1	1.563	-	-	-	1.563	1	1.563
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	1.563	-	-	-	-	-	1.563
<i>Subtotal: Hardware - TACP Fixed Simulator - JTC TRS Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	1.563	-	-	-	-	-	1.563
Software - Tactical Airborne Control Systems Cost																		
Recurring Cost																		
Digitally Aided CAS	-	-	-	1.290	3	3.870	0.513	3	1.539	1.000	1	1.000	-	-	-	1.000	1	1.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	3.870	-	-	1.539	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Software - Tactical Airborne Control Systems Cost</i>	-	-	-	-	-	3.870	-	-	1.539	-	-	1.000	-	-	-	-	-	1.000
Support - TACP SIM Support Cost																		
PMA - Contractor Services and other Government Costs	-	-	-	-	-	-	-	-	-	0.398	1	0.398	-	-	-	0.398	1	0.398
Contractor PM & Cyber Support	-	-	-	-	-	-	-	-	-	1.000	1	1.000	-	-	-	1.000	1	1.000
<i>Subtotal: Support - TACP SIM Support Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.398	-	-	-	-	-	1.398
Gross/Weapon System Cost	-	-	-	-	-	3.870	-	-	1.539	-	-	3.961	-	-	-	-	-	3.961

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Exhibit P-5, Cost Analysis: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment	Item Number / Title [DODIC]: AFSPECWAR - TACP
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF					
Quantity	-	-	-	-	-
Total Obligation Authority	3.870	1.539	3.961	-	3.961
Total:					
Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	3.870	1.539	3.961	-	3.961

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7						P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment						Aggregated Items Title: Deployable C3 Systems								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware, Recurring																				
TDC - Integrated Communications Access Package	A		-	-	-	0.176	39	6.860	1.276	20	25.521	1.119	36	40.280	-	-	-	1.119	36	40.280
<i>Secondary Distribution</i>																				
AF			-	-	-		33	5.804		4	5.104		3	3.356		-	-		3	3.356
AFNG			-	-	-		6	1.056		13	16.589		27	30.210		-	-		27	30.210
AFR			-	-	-		-	-		3	3.828		6	6.714		-	-		6	6.714
TDC - Network Control Center - Deployed	A		-	-	-	0.265	1	0.265	0.033	301	9.809	0.144	98	14.099	-	-	-	0.144	98	14.099
<i>Secondary Distribution</i>																				
AF			-	-	-		1	0.265		136	4.420		80	11.507		-	-		80	11.507
AFNG			-	-	-		-	-		138	4.485		18	2.592		-	-		18	2.592
AFR			-	-	-		-	-		27	0.904		-	-		-	-		-	-
TDC - SATCOM (formerly Hub and Spoke Satellite Terminals)	A		-	-	-	0.415	61	25.315	0.051	154	7.782	0.100	1	0.100	-	-	-	0.100	1	0.100
<i>Secondary Distribution</i>																				
AF			-	-	-		9	3.735		86	4.300		1	0.100		-	-		1	0.100
AFNG			-	-	-		43	17.845		55	2.750		-	-		-	-		-	-
AFR			-	-	-		9	3.735		13	0.732		-	-		-	-		-	-
Deployable Air Force Lead JTF Equipment	A		-	-	-	9.900	1	9.900	-	-	-	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-		1	9.900		-	-		-	0.000		-	-		-	0.000
Subtotal: Hardware, Recurring			-	-	-	-	-	42.340	-	-	43.112	-	-	54.479	-	-	-	-	-	54.479
Services																				
TDC - PMA Contractor Services	A		-	-	-	-	-	2.335	-	-	1.282	-	-	1.426	-	-	-	-	-	1.426
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	2.335	-	-	1.282	-	-	1.426	-	-	-	-	-	1.426
TDC - PMA Other Government Costs	A		-	-	-	-	-	1.160	-	-	1.283	-	-	1.400	-	-	-	-	-	1.400
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.160	-	-	1.283	-	-	1.400	-	-	-	-	-	1.400
Subtotal: Services			-	-	-	-	-	3.495	-	-	2.565	-	-	2.826	-	-	-	-	-	2.826
Total			-	-	-	-	-	45.835	-	-	45.677	-	-	57.305	-	-	-	-	-	57.305
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment	Aggregated Items Title: Deployable C3 Systems
Remarks: a. CONTROLLED ITEM will be funded with investment funds to purchase military communications equipment classified as critical protection items. b. PROGRAM SUPPORT COSTS (PSC): PSC for Theater Deployable Communications supports the operation of the program office in its management and oversight role, to include engineering and technical support, as well as support activities for the program. c. DIRECT MISSION SUPPORT (DMS): DMS for TDC includes all support associated with equipment installation, engineering, technical support orders, sustainment engineering, and implementation. This includes the initial bed down and operability testing, technical interchange meetings, and events associated with fielding both hardware and software products, and maintaining configuration control of fielded products.		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 **P-1 Line Item Number / Title:** 837100 / Tactical C-E Equipment **Aggregated Items Title:** Advanced Communications Systems

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Contracts																				
MUOS Contracts	A		-	-	-	5.932	1	5.932	6.178	1	6.178	11.316	1	11.316	-	-	-	11.316	1	11.316
<i>Secondary Distribution</i>																				
AF			-	-	-	-	1	5.932	-	1	6.178	-	1	11.316	-	-	-	-	1	11.316
Subtotal: Contracts			-	-	-	-	-	5.932	-	-	6.178	-	-	11.316	-	-	-	-	-	11.316
Program Support																				
Program Support	A		-	-	-	0.365	1	0.365	0.225	1	0.225	0.037	1	0.037	-	-	-	0.037	1	0.037
<i>Secondary Distribution</i>																				
AF			-	-	-	-	1	0.365	-	1	0.225	-	1	0.037	-	-	-	-	1	0.037
Subtotal: Program Support			-	-	-	-	-	0.365	-	-	0.225	-	-	0.037	-	-	-	-	-	0.037
Total			-	-	-	-	-	6.297	-	-	6.403	-	-	11.353	-	-	-	-	-	11.353

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

Remarks:

Advanced Communications Systems PE 0207423F
 PE 0207423F Mobile User Objective System (MUOS) and TACTICAL RADIO SYSTEMS (TRS) are commercial off the shelf 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 TRS 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.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment	Item Number / Title [DODIC]: Tactical Air Control Party-Mod

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	35.967	50.093	52.200	-	52.200
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	35.967	50.093	52.200	-	52.200
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	35.967	50.093	52.200	-	52.200

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)

Hardware - Hardware End Item Cost

Recurring Cost

TACP TRANSPORTABLE GATEWAY (TTG)	-	-	-	0.356	1	0.356	0.140	28	3.909	-	-	-	-	-	-	-	-	-
MOBILE COMMUNICATIONS SYSTEMS (MCS) Block 2	-	-	-	0.234	63	14.766	0.221	137	30.246	0.490	18	8.826	-	-	-	0.490	18	8.826
ARMORED MULTI-PURPOSE VEHICLE (AMPV)	-	-	-	0.375	5	1.875	0.600	5	3.001	0.708	5	3.540	-	-	-	0.708	5	3.540
Joint Light Tactical Vehicle (JLTV)	-	-	-	-	-	-	-	-	-	0.226	93	21.000	-	-	-	0.226	93	21.000
Subtotal: Recurring Cost	-	-	-	-	-	16.997	-	-	37.156	-	-	33.366	-	-	-	-	-	33.366
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	16.997	-	-	37.156	-	-	33.366	-	-	-	-	-	33.366

Hardware - Hardware end item Cost

Non Recurring Cost

ARMORED MULTI-PURPOSE VEHICLE (AMPV)	-	-	-	0.446	1	0.446	-	-	-	-	-	-	-	-	-	-	-	-
MCS Block 1 School House	-	-	-	-	-	-	0.007	1	0.007	-	-	-	-	-	-	-	-	-
AN/PRC-160 for JTAC Shortfall	-	-	-	-	-	-	-	-	-	0.037	153	5.614	-	-	-	0.037	153	5.614

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Exhibit P-5, Cost Analysis: PB 2022 Air Force													Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7						P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment						Item Number / Title [DODIC]: Tactical Air Control Party-Mod						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AN/PRC-161 HH L-16	-	-	-	-	-	-	0.021	111	2.353	0.021	83	1.756	-	-	-	0.021	83	1.756
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.446	-	-	2.360	-	-	7.370	-	-	-	-	-	7.370
<i>Subtotal: Hardware - Hardware end item Cost</i>	-	-	-	-	-	0.446	-	-	2.360	-	-	7.370	-	-	-	-	-	7.370
Support - 0207444F Cost																		
CRANE SUPPORT	-	-	-	5.676	1	5.676	4.760	1	4.760	4.855	1	4.855	-	-	-	4.855	1	4.855
PMA CONTRACTOR SERVICES	-	-	-	3.010	1	3.010	3.883	1	3.883	4.175	1	4.175	-	-	-	4.175	1	4.175
PMA OTHER GOV'T COSTS	-	-	-	0.528	1	0.528	1.034	1	1.034	1.034	1	1.034	-	-	-	1.034	1	1.034
TEST SUPPORT	-	-	-	1.233	1	1.233	0.900	1	0.900	1.008	1	1.008	-	-	-	1.008	1	1.008
Test Benches	-	-	-	0.438	6	2.628	-	-	-	-	-	-	-	-	-	-	-	-
TTG GFE	-	-	-	3.504	1	3.504	-	-	-	-	-	0.000	-	-	-	-	-	0.000
AN/PRC-160 for JTAC Shortfall	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
AN/PRC-161 (HH L-16)	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
Mini MDAS	-	-	-	0.150	13	1.945	-	-	-	-	-	-	-	-	-	-	-	-
TTG ICS	-	-	-	-	-	-	-	-	-	0.392	1	0.392	-	-	-	0.392	1	0.392
<i>Subtotal: Support - 0207444F Cost</i>	-	-	-	-	-	18.524	-	-	10.577	-	-	11.464	-	-	-	-	-	11.464
Gross/Weapon System Cost	-	-	-	-	-	35.967	-	-	50.093	-	-	52.200	-	-	-	-	-	52.200

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	35.967	50.093	52.200	-	52.200
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	35.967	50.093	52.200	-	52.200

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7		P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment
		Item Number / Title [DODIC]: Special Tactics / Combat Control

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	2,392	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	38.324	29.021	38.136	-	38.136
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	38.324	29.021	38.136	-	38.136
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	38.324	29.021	38.136	-	38.136

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	0.016	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
HUMAN MACHINE INTERFACE ^(†)	-	-	-	0.015	1,370	20.824	0.014	1,186	16.604	0.014	1,569	21.959	-	-	-	0.014	1,569	21.959
OPERATIONAL CONTROL SYSTEM (BAO KIT) ^(†)	-	-	-	0.014	987	14.295	0.011	840	9.220	0.011	1,137	12.510	-	-	-	0.011	1,137	12.510
LINE OF SIGHT	-	-	-	0.029	37	1.073	0.040	36	1.440	0.040	45	1.814	-	-	-	0.040	45	1.814
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	36.192	-	-	27.264	-	-	36.283	-	-	-	-	-	36.283
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	36.192	-	-	27.264	-	-	36.283	-	-	-	-	-	36.283
Support - Support End Item Cost																		
PMA CONTRACTOR SERVICES	-	-	-	-	-	1.122	-	-	1.033	-	-	1.093	-	-	-	-	-	1.093
PMA OTHER GOVERNMENT COSTS	-	-	-	-	-	1.010	-	-	0.724	-	-	0.760	-	-	-	-	-	0.760
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	2.132	-	-	1.757	-	-	1.853	-	-	-	-	-	1.853
Gross/Weapon System Cost	-	-	-	0.016	2,392	38.324	-	-	29.021	-	-	38.136	-	-	-	-	-	38.136

Remarks:

- a. Controlled Item will be funded with investment funds to purchase military communications equipment classified as critical protection items.
- b. Program Management Administration (PMA): Cost support management with engineering and technical implementation. PMA supports Program TDC with Engineering, and technical support activities.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment	Item Number / Title [DODIC]: Special Tactics / Combat Control
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	2,392	-	-	-
	Total Obligation Authority	38.324	29.021	38.136	38.136
Total:	Quantity	2,392	-	-	-
Secondary Distribution	Total Obligation Authority	38.324	29.021	38.136	38.136

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

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Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force **Date: May 2021**

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment	Item Number / Title [DODIC]: Special Tactics / Combat Control
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
HUMAN MACHINE INTERFACE		2020	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Oct 2019	Jan 2020	1,370	0.015	Y		Jul 2019
HUMAN MACHINE INTERFACE		2021	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Oct 2020	Jan 2021	1,186	0.014	Y		Jul 2020
HUMAN MACHINE INTERFACE		2022	Multiple / Multiple	Various	AFLCMC Wright Patterson AFB	Oct 2021	Jan 2022	1,569	0.014	Y		Jul 2021
OPERATIONAL CONTROL SYSTEM (BAO KIT)		2020	Black Diamond, LLC / AZ	SS / FFP	AFLCMC Wright Patterson AFB	Feb 2020	Mar 2020	987	0.014	Y		Dec 2019
OPERATIONAL CONTROL SYSTEM (BAO KIT)		2021	Black Diamond, LLC / AZ	SS / FFP	AFLCMC Wright Patterson AFB	Feb 2021	Mar 2021	840	0.011	Y		Dec 2020
OPERATIONAL CONTROL SYSTEM (BAO KIT)		2022	Black Diamond, LLC / AZ	SS / FFP	AFLCMC Wright Patterson AFB	Feb 2022	Mar 2022	1,137	0.011	Y		Dec 2021

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base **P-1 Line Item Number / Title:** 837190 / Radio Equipment

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	15.402	15.264	14.232	-	14.232	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	15.402	15.264	14.232	-	14.232	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	15.402	15.264	14.232	-	14.232	-	-	-	-	-	-

(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 capital equipment replacement program procures, integrates, modernizes, and fields High Frequency Global Communications System (HFGCS) high frequency (HF) radio equipment, network infrastructure, and transmit /receive antennas for 13 strategically located ground stations worldwide and 2 network control stations. The hardware and integration is based on commercial-off-the-shelf (COTS) or Government-developed products that have been configured for the Department of Defense (DOD), to provide the unique military capabilities required to function as a strategic HF system. The need for modern, robust, resilient, and dependable radio stations with beyond line of sight radio coverage has been identified to ensure HF radio communications is available in areas of interest to the United States.

HFGCS is the DoD's single global, strategic, high-power HF Nuclear Command, Control and Communication (NC3), and non-nuclear Command and Control (C2) network serving the DOD and other federal agencies. HFGCS consists of the two major components: the radio /network infrastructure (Scope Command) and the antenna infrastructure (Antenna Program Support) which communicate with mobile assets (aircraft, ships, and land-based platforms). HFGCS is USSTRATCOM's primary strategic HF pre-attack NC3 dependency system providing broadcasts to global strategic forces. HFGCS supports aircrews, ground forces, naval operations (USN and USCG), and control stations, and is the primary HF C2 resource for Air Mobility Command cargo and tanker aircraft. Additional customers include White House Communications Agency (WHCA), Defense Communications System HF Entry, and other US government agencies. HFGCS supports war plan dissemination and daily operational requirements for USSTRATCOM, WHCA, Joint Chiefs of Staff (JCS), National Military Command Center's Emergency Action Message distribution, Special Air Mission communications, Major Air Force Commands and Combatant Commanders. HFGCS provides radio connectivity to other governmental organizations such as the Department of Homeland Security, Federal Emergency Management Agency, Transportation Security Administration, State Department and Civil Air Patrol. The HFGCS network supports Overseas Contingency Operations with secure, robust, physically diverse terrestrial and airborne transmission paths providing information services between fixed and deployed operating locations. HFGCS has also been identified as a key communications component in supporting operations in a satellite challenged environment.

HFGCS supports HF Modernization with five lines of effort across the DoD. (1) Improve Arctic C2 by implementing modern HF standard waveforms and add station(s) at strategic locations to support that effort. (2) DoD HF Modernization strategy that synchronizes the efforts across the services to implement more robust and resilient waveforms and methods to execute the several critical missions supported. (3) USAF HF Modernization that directly supports the Airborne HF Radio Modernization (AHFRM) that allows modernized airborne radio equipment to communicate with the ground stations. (4) Air Operations Center (AOC) integration of HF radios and robust waveforms to serve as an alternate communications method in a satellite challenged environment. (5) PACAF HF Strategy that improves PACAF support for the INDOPACOM AOR by supporting robust and resilient HF communications across the AOR.

The HFGCS program continues to update and modernize audio switching equipment, mitigate COTS obsolescence, and update other unsupportable end-of-life components and to provide increased mandated information assurance system security compliance requirements. This requires technical refresh of the unsustainable equipment and communications infrastructure supporting NC3 /C2 operations. New COTS

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base		P-1 Line Item Number / Title: 837190 / Radio Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>components support future modernization efforts. In addition, new and updated equipment Included is Direct Mission Support /Program Management Administration (DMS /PMA), System Engineering, Joint Interoperability Test Center (JITC) installation testing and shipping costs for these procurement efforts.</p> <p>Funding for this exhibit contained in PE 0303133F.</p> <p>Military Necessity: Controlled Items will be funded with investment funds to purchase military communications equipment classified as critical protection items.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base **P-1 Line Item Number / Title:** 837190 / Radio Equipment

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Radio Equipment				- / -	- / 15.402	- / 15.264	- / 14.232	- / -	- / 14.232
P-40	Total Gross/Weapon System Cost				- / -	- / 15.402	- / 15.264	- / 14.232	- / -	- / 14.232

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

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

Justification:

1. SCOPE COMMAND RADIO/NETWORK INFRASTRUCTURE: The Scope Command Radio/Network Infrastructure projects continue the implementation of replacement commercial off-the-shelf (COTS) radio and console capabilities into the HFGCS network. The FY22 HFGCS Network Infrastructure program includes, but is not limited to, the Unified Capabilities/Audio Communications Functionality (UC/ACF) switch technical refresh. This funding request will also support potential diminishing manufacture sources and material shortages (DMSMS) and obsolescence solutions for radio equipment and network hardware/ servers, to include if optimal, life of type buys or bridge buys limited to the program of record quantity. Equipment buys may include enhanced HF Modernization waveforms and capabilities to support existing and new capabilities from several lines of effort. Funds will be utilized for hardware updates/integration and initial spares that do not qualify for Centralized Asset Management (CAM) funding to include, but not limited to, updating existing site configurations to support modified network baselines and mandated cyber security compliance requirements.

A. FY22 funding continues the Unified Capabilities/Audio Communications Functionality audio switch technical refresh to replace the obsolete and unsupported 1990s era audio switch. This replaces the obsolete Digital Electronic Switch (DES), as neither the IDPX-1000 nor Liberty Star-3 (LS-3) switch is on the Defense Information Systems Agency (DISA) approved product list (APL) and have become logistically unsupportable.

B. FY22 funds the start of HF Modernization of radio, modem, encryption, and network interface equipment supporting the five lines of effort for modernized radio procurement and integration. This multi-year effort will provide refresh of all operational radios and waveform/method integration at the 13 radio stations world-wide and the system integration lab.

C. FY22 funds Scope Command COTS Obsolescence Win Server and database replication replacement. The HFGCS system control servers and hosted software are becoming unsupportable and obsolete, requiring replacement. These non-datacenter, dedicated servers control and manage all Scope Command system machine resources, control and forward messages through the HF Email capability, resource status and control services databases, and manage information assurance protection monitoring capability.

2. HIGH FREQUENCY GLOBAL ANTENNA REPLACEMENT: A majority of the HFGCS system antennas have been in operation for over 35 years and have been subjected to degradation due to exposure to severe environmental conditions such as salt water and hurricane force winds. FY22 funds continue the replacement of critical antennas at HFGCS sites; actual locations and antenna selections will be based on technical assessment of the antenna condition and the operational requirements of the weapon system during execution. FY22 efforts include, but are not limited to, replacing 1 antenna across the enterprise. This funding request will support potential DMSMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity. Funds will be utilized for hardware updates and spares that do not qualify for Centralized Asset Management (CAM) funding to include, but not limited to updating existing site configurations, compliance with local site installation restrictions, and mitigation of potential local environmental considerations.

3. FY22 funds for program management administration costs will provide travel, financial management, engineering, and technical support for the program office. FY22 also funds Direct Mission Support, including support associated with engineering, sustainment engineering, shipping, and implementation. This includes operational acceptance testing and technical interchange meetings.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 **P-1 Line Item Number / Title:** 837190 / Radio Equipment **Aggregated Items Title:** Radio Equipment

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Scope Command Radio/Network Infrastructure																				
Ethernet Switch Replacement	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unified Capabilities/Audio Communications Functionality (UC/ACF)	A		-	-	-	5.000	1	5.000	6.000	1	6.000	7.614	1	7.614	-	-	-	7.614	1	7.614
Receive Matrix Replacement	A		-	-	-	2.173	1	2.173	1.048	1	1.048	-	-	-	-	-	-	-	-	-
HF Modernization	A		-	-	-	-	-	-	1.000	1	1.000	1.000	1	1.000	-	-	-	1.000	1	1.000
COTS Obsolescence	A		-	-	-	-	-	-	-	-	-	2.500	1	2.500	-	-	-	2.500	1	2.500
Subtotal: Scope Command Radio/Network Infrastructure			-	-	-	-	-	7.173	-	-	8.048	-	-	11.114	-	-	-	-	-	11.114
Antenna Replacement																				
HFGCS Station Antenna Replacements	A		-	-	-	1.330	5	6.651	1.121	5	5.606	1.550	1	1.550	-	-	-	1.550	1	1.550
Antenna Site Support	A		-	-	-	0.300	1	0.300	0.327	1	0.327	0.300	1	0.300	-	-	-	0.300	1	0.300
Subtotal: Antenna Replacement			-	-	-	-	-	6.951	-	-	5.933	-	-	1.850	-	-	-	-	-	1.850
DMS/PMA																				
Direct Mission Support (DMS) [Systems Engineering, Testing, Shipping]	A		-	-	-	-	-	0.750	0.753	1	0.753	0.693	1	0.693	-	-	-	0.693	1	0.693
PMA Contractor Services	A		-	-	-	-	-	0.403	0.403	1	0.403	0.450	1	0.450	-	-	-	0.450	1	0.450
PMA Other Government Costs	A		-	-	-	-	-	0.125	0.127	1	0.127	0.125	1	0.125	-	-	-	0.125	1	0.125
Subtotal: DMS/PMA			-	-	-	-	-	1.278	-	-	1.283	-	-	1.268	-	-	-	-	-	1.268
Total			-	-	-	-	-	15.402	-	-	15.264	-	-	14.232	-	-	-	-	-	14.232

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

Remarks:

- 1). Due to different levels of complexity, differences in equipment to be updated and length of required time necessary for modification total cost will fluctuate between fiscal years.
- 2). Differences in site specific setup (due to variations between mission specific needs and differences in site type will drive differences in site specific requirements (e.g., time required, hardware required and software required). This makes quantification impossible, as there is no single baseline to produce a quantity against.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 837240 / CCTV/Audiovisual Equipment

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	2.211	0.000	0.000	-	0.000	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	2.211	0.000	0.000	-	0.000	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	2.211	0.000	0.000	-	0.000	-	-	-	-	-	-

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

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

Description:

Funding for this exhibit contained in PEs 0102890F, 030555F, 0401319F and 0808534F.

Visual Information Activities - Strategic PE 0102890F - P-40A

Imagery Acquisition and Audiovisual (AV) systems and their products are used throughout the Air Force to inform and train warfighters and to document combat operations and other events of historical significance. Combat video documentation is used for operational reporting and analysis, situational awareness, battle damage assessment, intelligence and operational analysis, casualty identification, and the historical record. In addition, video and multimedia based products are developed for warfighter operations, readiness training, medical videography, public and internal information, testing and evaluation, and corporate communications. Commanders recognize that imagery quickly conveys very accurate and unbiased information, and are requiring greater amounts of video imagery to help meet the challenges of a very active warfighting force. The Air Force is meeting this challenge by dedicating funding to procure and sustain this important capability by replacing older video studio systems with newer and more capable equipment and systems for both Air Force video production and combat/contingency documentation teams. Imagery acquisition systems are centrally managed to establish and maintain standardization of systems, as well as to ensure full interoperability with all other electronic image acquisition, transmission system formats, and presentation systems used in the Air Force.

WESTERN TEST RANGE DIGITAL IMAGING SYSTEMS: This program replaces obsolete, 35+ year-old high-speed engineering film cameras with high-speed digital imaging systems and also upgrades Optical Tracking Mounts to accommodate the new digital imaging systems. This capital equipment replacement procures items to maintain current capability. These cameras are mounted on mobile optical tracking systems and on camera towers next to the launch pad to provide detailed slow motion photography of the launch events. The cameras support satellite, ballistic, missile defense, and aeronautical missions on the Western Test Range and at Kodiak Island, Alaska. The optical data acquired by these engineering camera systems is a vital part of post flight performance analysis of all space and ballistic launch operations and is critical for Test and Evaluation programs now being conducted by the Missile Defense Agency (MDA) at Vandenberg AFB. Optical tracking provides detailed engineering sequential photography for anomaly resolution and accident reconstruction at distances up to 60 kilometers, and is required for all current and future MDA tests and Delta IV, Atlas IV, Delta II, Peacekeeper, Minuteman, Airborne Laser, Kinetic Kill Vehicle, and commercial space launches. These digital systems replace film camera systems that are no longer logistically supportable.

PRESIDENTIAL AIRCRAFT RECAPITALIZATION (PAR) - One-time upgrade to PAR audio visual equipment.

Justification:

No Budget Year FY22 funds requested.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base **P-1 Line Item Number / Title:** 837300 / Base Comm Infrastructure

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	64.300	199.925	200.797	-	200.797	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	64.300	199.925	200.797	-	200.797	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	64.300	199.925	200.797	-	200.797	-	-	-	-	-	-

(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:

FY21 funding totals include 30.717M appropriated for Overseas Contingency Operations.
 FY22 funding totals include 4.075M requested for Direct War and/or Enduring Requirements.

The FY22 funding request was reduced by 6.000M to account for the availability of prior year execution balances.

PE 0102325F Atmospheric Early Warning System - P-40A
 Atmospheric Early Warning System (PE 0102325F)

PE 0207439F Electronic Warfare Integrated Reprogramming (EWIR) - P40A
 DISTRIBUTED MISSION OPERATIONS AND THREAT CHANGE ANALYSIS: New start. Conducted by the 453rd Electronic Warfare Squadron (453 EWS), EWIR provides analytical capabilities and reachback support for DoD acquisition, planning and mission execution activities. These capabilities ensure electromagnetic warfare (EW) systems and integrated combat platforms correctly recognize and respond to enemy, friendly and noncombatant systems operating within the electromagnetic environment. The effort includes funds used to procure specialized information technology systems used to identify electromagnetic spectrum emitter changes that impact combat defensive and electronic warfare systems and to conduct detailed analyses in support of operational mission planning, tactics, techniques and procedures (TTP) development, acquisition and test & evaluation. These analyses provide the means to understand the performance of their systems in hostile environments, directly impacting the survivability of combat-coded USAF aircraft and aircrews.

PE 0208535F Collateral Equipment - Tactical Air Forces - P-40A
 Collateral Equipment - Tactical Air Forces PE 0208535F/EIC FP15:
 This program procures equipment to support the European Infrastructure Consolidation (EIC), providing equipment to fit-out the Joint Intelligence Analytic Center/NATO Intelligence Fusion Center (JIAC/NIFC) complex at RAF Molesworth. The JIAC/NIFC operational facilities at RAF Molesworth will consolidate European intelligence functions critical to the USEUCOM warfighting mission.

PE 0308611F Communications and Information Technology - P-40A
 AFSPC Communications Infrastructure Equipment: Funds enable timely and assured delivery of data, video and voice communications supporting a wide range of Air Force organizations and decision makers, providing the space enterprise with a robust communications infrastructure. This funding supports life cycle management of space communications network(s) in order to maintain consistent, compatible, and

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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>interoperable capability in support of multi-domain operations. Funds are also needed to provide C4I support for military construction projects, a multitude of smaller, individual communications, computer, air traffic control and weather instrumentation connectivity needs. This funding will be executed by HQ AFSPC or associated space units.</p> <p>PE 0401319F VC-25B - P-40A The VC-25B Program, formerly known as the Presidential Aircraft Recapitalization (PAR) Program, will replace the Presidential VC-25A fleet which faces capability gaps, rising maintenance costs, and parts obsolescence as it reaches the end of its planned 30-year life-cycle. The VC-25B Program Office will deliver a new fleet of aircraft to meet the requirements for the President to execute the duties of Head of State, Chief Executive, and Commander-in-Chief. FY21 funds will be used to provide data, voice, and video equipment required to support new PAR Complex military construction project and enable operations of Presidential Airlift Group within the facility.</p> <p>PE 0205219F MQ-9 UAV - P-40A MQ-9 Reaper Squadron Operations Centers (SOCs) enable Remote Split Operations (RSO), provide critical mission data and tasking information to the aircrew and disseminate and/or exchange mission data with decision-makers and the intelligence community.</p> <p>PE 0303004F EIT CONNECT - P-40A Air Combat Command (ACC) 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. In FY2021, PE 0207436F (Engineering and Installation Support AF), efforts were transferred to PE 0303004F (EIT Connect), in order to align resources under the Enterprise Information Technology portfolio.</p> <p>PE 0303005F EIT END USER DEVICES - P-40A a. Air Force District Washington (AFDW) Base Communications Network Equipment: 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). In FY2021, PE 0305550F (Information Technology Services Management - Other), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio. b. Air Force Materiel Command (AFMC) Base Communications infrastructure Equipment: Funding allows AFMC to support AF operations by sustaining critical cyber systems that provide timely and assured delivery of data and voice communications for organizations at nine AFMC installations with 100,000 personnel. Funding directly supports the warfighter on a 24/7 operational basis by providing AFMC the ability to deliver cyber capabilities to sustain aircraft sortie generation rates, weapon systems availability, system operational testing, and timely acquisition of equipment parts. This program is vital for AFMC's life cycle management of network servers, service desk, repair of critical communications infrastructure, routers, ductwork, cables, Land Area Networks (LANs), voice and data switches, and Mass Notifications and Land Mobile Radio (LMR) systems. Funding allows for end-of-life replacement of end building node network, data and voice hardware that complies with AF cyber architecture enterprise standards. In FY2021, PE 0708550F (Information Technology Services Management - Logistics), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio. c. 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. In FY2021, PE 0408550F (Information Technology Services Management - Mobility Air Forces), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio. d. Air Force Special Operations Command (AFSOC) Base Communications Infrastructure Equipment: This equipment supports more than 18,000 AFSOC active-duty, Air Force Reserve, Air National Guard and civilian personnel and allow AFSOC to meet the mission of presenting combat ready forces to conduct and support global special operations missions. Funds end of life IT connect infrastructure to provide dial tone and Internet access across the AFSOC enterprise. This is a continuing requirement, where aging legacy components are no longer funded through other cyber portfolios and each MAJCOM must replace these critical components. In FY2021, PE 0208550F (Information Technology Services Management - Tactical Air Forces), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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>e. Pacific Air Forces (PACAF) Base Communications Infrastructure Equipment: PACAF network equipment and life cycle replacement of base information technology systems supports base operations, command-wide connectivity, and transformation efforts. The large geographic separation between PACAF units significantly raises the importance of a robust communications infrastructure to ensure war fighter access to secure voice, data, and video systems. In FY2021, PE 0208550F (Information Technology Services Management - Tactical Air Forces), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio.</p> <p>f. 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. In FY2021, PE 0208550F (Information Technology Services Management - Tactical Air Forces), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio.</p> <p>g. USAFE-AFAFRICA Base Communications Infrastructure Equipment: USAFE-AFAFRICA base communications funding supports the acquisition, and installation of base network infrastructures, especially C2 communications, located at USAFE-AFAFRICA Main Operating Bases (MOBs) and Geographically Separated Units (GSUs) consisting of a HQ, one numbered Air Force, seven MOBs and 137 GSUs. Specific critical base communications infrastructure provide support for Headquarters, Warfighting Numbered Air Force and Operational wings, flight support, emergency actions, and the operational planning, delivering, sustaining, integrating, and managing of USAF communications capabilities, networks, and applications in the USEUCOM and USAFRICOM theaters based on geographical combatant command orders and plans. Base communications infrastructure is required to support the European Infrastructure Consolidation (EIC) which is an OSD-directed process to restructure basing of forces within the European Command (EUCOM) Area of Responsibility (AOR). Base communications infrastructure is also required to support the European Deterrence Initiative (EDI). EDI supports increased rotational presence of air, ground and sea forces throughout Europe, increased and added bilateral and multilateral exercises and training events with U.S. allies and partners in Europe, improved infrastructure to allow for greater responsiveness across Europe, enhanced prepositioning of U.S. equipment across Europe, and intensified our efforts to build partner capacity for newer NATO members and partners. In FY2021, PE 0208550F (Information Technology Services Management - Tactical Air Forces), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio.</p> <p>h. Air Education and Training Command (AETC) Base Communications Infrastructure Equipment: Funds support base-approved and MAJCOM-validated communications requirements as identified in base communications blueprints. These requirements include flying and technical training, education, recruiting, and accession mission, command and control, as well as first responder services at all 11 AETC bases. This is a continuing requirement. In FY2021, PE 0808550F (Information Technology Services Management - Training), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio.</p> <p>PE 0505550F Information Technology Services Management - AFR - P-40A Air Force Reserve Command (AFRC) Base Communications Infrastructure Equipment: Funds provide for recapitalization, and support of AFRC base communications infrastructure. AFRC is an AF MAJCOM consisting of a HQ, three Numbered Air Forces (NAFs), 45 flying wings/groups and more than 40 GSUs; Air Reserve Personnel Center (ARPC) and the Major Command Coordinating Center (MCCC). Funding supports AFR-wide programs providing base communications infrastructure consistency. Funding provides AFR-wide hardware and software purchases, thus ensuring the deployment of consistent, compatible, and interoperable technology and architecture. This is a continuing requirement.</p> <p>In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the armed forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>PE 0508550F Information Technology Services Management - ANG - P-40A Air National Guard (ANG) Base Communications Infrastructure Equipment: Funding supports the operations, maintenance, and sustainment of IT components, infrastructure, and processes enabling effective operations and defense of the ANG enterprise portion of the Air Force Network (AFNet). Funds provide for IT life cycle support for 90 ANG Main Operating Bases (MOB), 153 GSUs, and the 299th Cyber Security Control (CSCS) weapon system. Funds support ANG-wide base communications infrastructure projects consistent with AF IT standards and for compatibility of the ANG enterprise with the AF and Department of Defense (DoD) centralized networks. A major component of this funding is to support the procurement and implementation of a robust Installation Notification and Warning System (INWS) that provides Giant Voice, Indoor Alerts, Telephone call/text alerts, software for computer alerts, and other alerting methods to meet DOD and Federal warning requirements for all ANG bases. This is a continuing requirement.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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		

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the armed forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

PE 0305155F Theater Nuclear Weapons Storage & Security System - P-40A

The Weapon Storage and Security System (WS3) is a NATO funded, US maintained/operated system of systems for secure storage and sustainment of U.S. weapons deployed in Europe. The WS3 Service Life Extension Program will address obsolescence issues with the Alarm Communication and Display (AC&D) system, update the encryption algorithm to Advanced Encryption Standard (AES) 256 for communicating alarm messages to the monitoring facilities, replace obsolete analogue components with modern Internet Protocol (IP)-based components (does NOT connect to the internet), replace old communication cables with modern fiber optic cables capable of handling modern digital bandwidth, replace out-of-production assessment cameras, replaces antiquated Monitoring Facility Operator trainers, add video security capabilities, and improve sustainability; it will extend system service life to 2050.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	60.030	189.898	191.107	0.000	191.107	-	-	-	-
AFNG	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	3.924	9.675	9.337	0.000	9.337	-	-	-	-
AFR	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.346	0.352	0.353	0.000	0.353	-	-	-	-
Total:	Quantity	0	0	0	0	0	-	-	-	-
Secondary Distribution	Total Obligation Authority	64.300	199.925	200.797	0.000	200.797	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base **P-1 Line Item Number / Title:** 837300 / Base Comm Infrastructure

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Atmospheric Early Warning System				- / -	- / 0.000	- / 3.994	- / 3.953	- / -	- / 3.953
P-40a	Engineering and Installation - Air Force				- / -	- / 3.020	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	Electronic Warfare Integrated Reprogramming (EWIR)				- / -	- / 0.000	- / 0.000	- / 1.976	- / -	- / 1.976
P-40a	Collateral Equipment - Tactical Air Forces				- / -	- / 5.966	- / 2.216	- / 0.000	- / -	- / 0.000
P-40a	Theater Nuclear Weapon Storage & Security System				- / -	- / 0.000	- / 0.000	- / 58.445	- / -	- / 58.445
P-40a	Information Technology Services Management - Other				- / -	- / 3.254	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	Communications and Information Technology				- / -	- / 5.439	- / 5.412	- / 0.000	- / -	- / 0.000
P-40a	VC-25B				- / -	- / 4.010	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	MQ-9 UAV				- / -	- / 7.898	- / 82.160	- / 70.370	- / -	- / 70.370
P-40a	Information Technology Services Management - Tactical Air Forces				- / -	- / 9.664	- / 0.187	- / -	- / -	- / -
P-40a	EIT CONNECT				- / -	- / 16.286	- / 16.289	- / 16.407	- / -	- / 16.407
P-40a	EIT END USER DEVICES				- / -	- / 0.000	- / 79.640	- / 39.955	- / -	- / 39.955
P-40a	Information Technology Services Management - Mobility Air Forces				- / -	- / 0.780	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	Information Technology Services Management - AFR				- / -	- / 0.346	- / 0.352	- / 0.353	- / -	- / 0.353
P-40a	Information Technology Services Management - ANG				- / -	- / 3.924	- / 9.675	- / 9.337	- / -	- / 9.337
P-40a	Information Technology Services Management - Logistics				- / -	- / 2.779	- / 0.000	- / 0.001	- / -	- / 0.001
P-40a	Information Technology Services Management - Training				- / -	- / 0.934	- / 0.000	- / 0.000	- / -	- / 0.000
P-40	Total Gross/Weapon System Cost				- / -	- / 64.300	- / 199.925	- / 200.797	- / -	- / 200.797

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

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

Justification:

This program, Base Comm Infrastructure P-40A Category EWIR Communications Infrastructure Item EWIR, is a new start.
 This program, Base Comm Infrastructure P-40A Category Uncategorized Item Theater Nuclear Weapon Storage & Security System, is a new start.

PE 0207439F Electronic Warfare Integrated Reprogramming (EWIR) - P40A
 FY 2022 funding will be used to enhance communications infrastructure for electromagnetic warfare (EW) Threat Change Analysis and Distributed Mission Operations. Specific equipment items and quantities may change due to mission needs.

PE 0102325F Atmospheric Early Warning System - P-40A
 Atmospheric Early Working System (PE 0102325F)
 FY22 funding required for system upgrade.

PE 0208535F Collateral Equipment - Tactical Air Forces - P-40A
 Collateral Equipment - Tactical Air Forces PE 0208535f/EIC - FP15:

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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>European Infrastructure Consolidation (EIC): FY22 no funding requested.</p> <p>PE 0208550F Information Technology Services Management -Tactical Air Forces. FY22 no funding requested.</p> <p>PE 0308611F Communications and Information Technology - P-40A AFSPC Communications Infrastructure Equipment: FY22 no funding requested.</p> <p>PE 0401319F VC-25B - P-40A FY22 no funding requested.</p> <p>PE 0205219F MQ-9 UAV - P-40A FY22 funds are required for the procurement and installation of hardware and software at MQ-9 Squadron Operations Centers (SOCs) to enable mission communications and exchange of mission data necessary for the employment of Remote Split Operations for MQ-9 Reaper missions.</p> <p>PE 0303004F EIT CONNECT - P-40A Air Combat Command (ACC) 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. FY21 16.289M</p> <p>PE 0303005F EIT END USER DEVICES - P-40A a. Air Force District Washington (AFDW) Base Communications Network Equipment: FY 2022 funds procure wide and local area network hardware (i.e., servers, routers, hubs and network systems) at Joint Base Anacostia-Bolling, Joint Base Andrews, and Headquarters Air Force. This program invests in office automation systems and computer networks in order to procure high-quality, high-speed connections to both public and classified network, and equipment required to react to emerging and emergency mission requirements in the National Capital Region (NCR). b. Air Force Materiel Command (AFMC) Communications Infrastructure Equipment: FY 2022 funds support command wide and base approved, MAJCOM validated communications requirements. These provide base life cycle management of AFMC's classified and unclassified network server consolidation, Land Mobile Radio (LMR) systems, routers, voice and data switches, ductwork, cabling, and end building node hardware that support UC and communications infrastructure. Procurements include VoIP solutions to replace the obsolete telephone switches and communications infrastructure. c. Air Force District Washington (AFDW) Base Communications Infrastructure Equipment: FY 2022 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. d. Air Force Special Operations Command (AFSOC) Base Communications Infrastructure Equipment: FY 2021 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. e. Pacific Air Forces (PACAF) Base Communications Infrastructure Equipment: FY 2022 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. f. Air Combat Command (ACC) Base Communications Infrastructure Equipment: FY 2022 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. g. USAFE-AFAFRICA Base Communications Infrastructure Equipment: FY 2022 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</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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>for USAFE-AFAFRICA users at MOBS and GSUs. Additionally, FY 2022 funds procure communications infrastructure in support of the EIC and procure equipment to support the European Deterrence Initiative (EDI). EDI requires additional long haul communication support to support increased rotational presence of air, ground and sea forces throughout Europe.</p> <p>h. Air Education and Training Command (AETC) Base Communications Infrastructure Equipment: FY 2022 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> <p>PE 0505550F Information Technology Services Management - AFR - P-40A Air Force Reserve Command (AFRC) Base Communications Infrastructure Equipment: FY 2022 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>PE 0508550F Information Technology Services Management - ANG - P-40A Air National Guard (ANG) Base Communications Infrastructure Equipment: FY 2022 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>PE 0305155F Theater Nuclear Weapons Storage & Security System - P-40A Requested funding implements national security presidential guidance and combatant commander recommendations following the 2018 Nuclear Posture Review. This program is tightly integrated with several high priority programs required for F-35 bedddown and requires full funding to meet program milestones. Additionally, this program is required to support NATO plans and the evolving threat environment.</p>		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure	Aggregated Items Title: Atmospheric Early Warning System
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Atmospheric Early Warning System	A		-	-	-	-	-	0.000	-	-	3.994	-	-	3.953	-	-	-	-	-	3.953
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	3.994	-	-	3.953	-	-	-	-	-	3.953
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	3.994	-	-	3.953	-	-	-	-	-	3.953
Total			-	-	-	-	-	0.000	-	-	3.994	-	-	3.953	-	-	-	-	-	3.953

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure	Aggregated Items Title: Engineering and Installation - Air Force
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Engineering & Installation																				
New Item	A		-	-	-	-	-	3.020	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	3.020	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Engineering & Installation			-	-	-	-	-	3.020	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	3.020	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7						P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure						Aggregated Items Title: Electronic Warfare Integrated Reprogramming (EWIR)							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
EWIR Communications Infrastructure																				
EWIR	A		-	-	-	-	-	0.000	-	-	0.000	-	-	1.976	-	-	-	-	-	1.976
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	0.000	-	-	1.976	-	-	-	-	-	1.976
Subtotal: EWIR Communications Infrastructure			-	-	-	-	-	0.000	-	-	0.000	-	-	1.976	-	-	-	-	-	1.976
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	1.976	-	-	-	-	-	1.976

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure	Aggregated Items Title: Collateral Equipment - Tactical Air Forces
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Collateral Equipment - Tactical Air Force																				
EIC-FP15	A		-	-	-	-	-	5.966	-	-	2.216	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	5.966	-	-	2.216	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Collateral Equipment - Tactical Air Force			-	-	-	-	-	5.966	-	-	2.216	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	5.966	-	-	2.216	-	-	0.000	-	-	-	-	-	0.000

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7						P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure						Aggregated Items Title: Theater Nuclear Weapon Storage & Security System							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Theater Nuclear Weapon Storage & Security System	A		-	-	-	-	-	0.000	-	-	0.000	-	-	58.445	-	-	-	-	-	58.445
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	0.000		-	58.445		-	-		-	58.445
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	0.000	-	-	58.445	-	-	-	-	-	58.445
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	58.445	-	-	-	-	-	58.445

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force														Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7							P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure							Aggregated Items Title: Information Technology Services Management - Other					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Information Technology Services Management - Other																				
New Item	A		-	-	-	-	-	3.254	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	3.254		-	0.000		-	0.000		-	-	-	-	0.000
Subtotal: Information Technology Services Management - Other			-	-	-	-	-	3.254	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	3.254	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7						P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure						Aggregated Items Title: Communications and Information Technology							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AFSPC																				
AFSPC Communications Infrastructure Equipment	A		-	-	-	-	-	5.439	-	-	5.412	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	5.439	-	-	5.412	-	-	0.000	-	-	-	-	-	0.000
Subtotal: AFSPC			-	-	-	-	-	5.439	-	-	5.412	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	5.439	-	-	5.412	-	-	0.000	-	-	-	-	-	0.000

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure	Aggregated Items Title: VC-25B
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AFMC																				
VC-25B PAR	A		-	-	-	-	-	4.010	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	4.010	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: AFMC			-	-	-	-	-	4.010	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	4.010	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure	Aggregated Items Title: MQ-9 UAV
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
PMA Other Government Costs	A		-	-	-	-	-	0.400	-	-	0.740	-	-	0.290	-	-	-	-	-	0.290
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.400	-	-	0.740	-	-	0.290	-	-	-	-	-	0.290
Equipment	A		-	-	-	-	-	7.498	-	-	30.897	-	-	25.573	-	-	-	-	-	25.573
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	7.498	-	-	30.897	-	-	25.573	-	-	-	-	-	25.573
ACC Equipment	A		-	-	-	-	-	-	-	-	50.523	-	-	44.507	-	-	-	-	-	44.507
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	50.523	-	-	44.507	-	-	-	-	-	44.507
Subtotal: Uncategorized			-	-	-	-	-	7.898	-	-	82.160	-	-	70.370	-	-	-	-	-	70.370
Total			-	-	-	-	-	7.898	-	-	82.160	-	-	70.370	-	-	-	-	-	70.370

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7						P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure						Aggregated Items Title: Information Technology Services Management - Tactical Air Forces							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ITSM - Tactical AF's																				
Base Communications Infrastructure Equipment	A		-	-	-	-	-	9.664	-	-	0.187	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
AF				-	-	-	-	9.664			0.187		-	-		-	-		-	-
Subtotal: ITSM - Tactical AF's			-	-	-	-	-	9.664	-	-	0.187	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	9.664	-	-	0.187	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure	Aggregated Items Title: EIT CONNECT
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ACC E&I																				
ACC Lead Command Base Communications Infrastructure	A		-	-	-	-	-	16.286	-	-	16.289	-	-	16.407	-	-	-	-	-	16.407
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	16.286	-	-	16.289	-	-	16.407	-	-	-	-	-	16.407
Subtotal: ACC E&I			-	-	-	-	-	16.286	-	-	16.289	-	-	16.407	-	-	-	-	-	16.407
Total			-	-	-	-	-	16.286	-	-	16.289	-	-	16.407	-	-	-	-	-	16.407

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

Remarks:

*Lead Command responsibility for the E&I program transferred from AFSPC to ACC. In FY2021, PE 0207436F (Engineering and Installation Support AF), efforts were transferred to PE 0303004F (EIT Connect), in order to align resources under the Enterprise Information Technology portfolio.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7	P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure	Aggregated Items Title: EIT END USER DEVICES
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ITSM																				
AFMC Base Communications Infrastructure Equipment	A		-	-	-	-	-	0.000	-	-	79.640	-	-	39.955	-	-	-	-	-	39.955
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.000	-	-	79.640	-	-	39.955	-	-	-	-	-	39.955
Subtotal: ITSM			-	-	-	-	-	0.000	-	-	79.640	-	-	39.955	-	-	-	-	-	39.955
Total			-	-	-	-	-	0.000	-	-	79.640	-	-	39.955	-	-	-	-	-	39.955

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

Remarks:

- a. In FY2021, PE 0305550F (Information Technology Services Management - Other), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio.
- b. In FY2021, PE 0708550F (Information Technology Services Management - Logistics), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio.
- c. In FY2021, PE 0408550F (Information Technology Services Management - Mobility Air Forces), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio.
- d-g. In FY2021, PE 0208550F (Information Technology Services Management - Tactical Air Forces), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio.
- h. In FY2021, PE 0808550F (Information Technology Services Management - Training), efforts were transferred to PE 0303005F (EIT End Devices), in order to align resources under the Enterprise Information Technology portfolio.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7						P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure						Aggregated Items Title: Information Technology Services Management - Mobility Air Forces							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ITSM - Mobility AF's																				
AFDW Base Communications Infrastructure Equipment	A		-	-	-	-	-	0.780	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.780	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: ITSM - Mobility AF's			-	-	-	-	-	0.780	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	0.780	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7						P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure						Aggregated Items Title: Information Technology Services Management - AFR							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ITSM - AFR																				
AFRC Base Communications Infrastructure Equipment	A		-	-	-	-	-	0.346	-	-	0.352	-	-	0.353	-	-	-	-	-	0.353
<i>Secondary Distribution</i>																				
AFR			-	-	-	-	-	0.346	-	-	0.352	-	-	0.353	-	-	-	-	-	0.353
Subtotal: ITSM - AFR			-	-	-	-	-	0.346	-	-	0.352	-	-	0.353	-	-	-	-	-	0.353
Total			-	-	-	-	-	0.346	-	-	0.352	-	-	0.353	-	-	-	-	-	0.353

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7							P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure								Aggregated Items Title: Information Technology Services Management - ANG				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ITSM - ANG																				
ANG Base Communications Infrastructure Equipment	A		-	-	-	-	-	3.924	-	-	9.675	-	-	9.337	-	-	-	-	-	9.337
<i>Secondary Distribution</i>																				
AFNG			-	-	-	-	-	3.924	-	-	9.675	-	-	9.337	-	-	-	-	-	9.337
Subtotal: ITSM - ANG			-	-	-	-	-	3.924	-	-	9.675	-	-	9.337	-	-	-	-	-	9.337
Total			-	-	-	-	-	3.924	-	-	9.675	-	-	9.337	-	-	-	-	-	9.337

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7						P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure						Aggregated Items Title: Information Technology Services Management - Logistics							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ITSM - Logistics																				
AFMC Base Communications Infrastructure Equipment	A		-	-	-	-	-	2.779	-	-	0.000	-	-	0.001	-	-	-	-	-	0.001
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	2.779	-	-	0.000	-	-	0.001	-	-	-	-	-	0.001
Subtotal: ITSM - Logistics			-	-	-	-	-	2.779	-	-	0.000	-	-	0.001	-	-	-	-	-	0.001
Total			-	-	-	-	-	2.779	-	-	0.000	-	-	0.001	-	-	-	-	-	0.001

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7							P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure								Aggregated Items Title: Information Technology Services Management - Training				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ITSM - Training																				
AETC Base Communications Infrastructure Equipment	A		-	-	-	-	-	0.934	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.934	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: ITSM - Training			-	-	-	-	-	0.934	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	0.934	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications **P-1 Line Item Number / Title:** 838010 / Comm Elect Mods

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	14.163	21.471	18.607	-	18.607	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	14.163	21.471	18.607	-	18.607	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	14.163	21.471	18.607	-	18.607	-	-	-	-	-	-

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

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

Description:

PE 0102412F North Warning Systems POR - P-40A Talon Archer
Parts support for Talon Archer at the North Warning System Sites

PE 0305114F Air Traffic Control and Landing Systems (ATCALs) - P-40A - Low Cost Modifications

Fixed base and deployable ATCALs low cost modifications are initiated to resolve diminishing manufacturing source (DMS) issues and minor system deficiencies/improvements identified through the ATCALs Weapon System Review-Executive Council (WSR-EC), policy TO 00-35D-54 Deficiency Reports, and Material Improvement initiatives. The implementation of these low-cost modifications decreases maintenance costs and improves system operational availability. The return on investment for these low-cost modifications will be realized immediately through decreased unscheduled depot and field level maintenance, enhanced performance, and operational safety. The operational availability of terminal navigational aids, national airspace systems, and precision approach and landing systems are at risk if low-dollar modifications are not provided to reverse unfavorable operational availability metrics.

PE 0305137F National Airspace System (NAS) - Low Cost Mods/NAS Mods:

NAS is an inactive ACAT I program which transitioned to the operations and support phase in FY17. NAS Modifications fund Diminishing Manufacturing Sources (DMS) and Material Shortages (MS) efforts to include, but are not limited to, obsolescence scans, DMS/MS studies and resolution and for Technical Support Services (TSS) which includes Engineering Support, Site Specific Issue Resolution, Trouble Reports, Investigation Request, Discrepancy Report Resolution, and the Product Support Library. NAS low cost modifications are initiated to resolve DMS issues and minor system deficiencies/improvements identified through the NAS Weapon System Review-Executive Council (WSR-EC), policy TO 00-35D-54 Deficiency Reports, and Material Improvement initiatives.

PE 0604281F Tactical Data Networks Enterprise - P-40A

Tactical Data Links (TDL), as a subset of the broader airborne network, are used in a combat environment to exchange information such as messages, data, radar tracks, target information, platform status, imagery, and command assignments. TDLs provide interoperability, local and global connectivity, and situational awareness to the user when operating under rapidly changing operational conditions. TDLs provide a jam-resistant; secure digital data transfer network capability with new and standardized waveforms and data formats allowing Line-of-Sight (LOS) and Beyond-Line-of-Sight (BLOS) intra- and inter-flight communications. TDLs increase mission effectiveness, provide positive identification of aircraft in the network, correlate on and off-board sensor data sharing, target, and threat information, and provide the data link to accomplish time critical targeting and other mission update functions. TDLs are used by all service theater Command and Control (C2) elements, weapons platforms, and sensors.

TDLs include, but are not limited to: Link 16, Link 11, Link 22, Situational Awareness Data Link (SADL), Multifunction Advanced Data Link (MADL) Variable Message Format (VMF), Integrated Broadcast Service (IBS), Intra-Flight Data Link (IFDL), Tactical Targeting Network Technology (TTNT) and Airborne Extensible Relay and Over the Horizon Network (AERONet). TDL efforts include incorporating changes

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications		P-1 Line Item Number / Title: 838010 / Comm Elect Mods
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305114F

Line Item MDAP/MAIS Code: N/A

and additions to the Link-16 message standard (MIL-STD-6016E) and applicable Interface Change Proposals (ICPs), assisting with Air Force and joint interoperability certification testing with the Air Combat Command (ACC) and Joint Interoperability Test Center (JITC); future development, integration, and verification of Operational Flight Program (OFP) upgrades due to TDL integration; support of data gathering processes; studying and incorporating data link technologies to ensure effectiveness and efficiency of the Global Strike and Global Persistent Attack CONOPS.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications **P-1 Line Item Number / Title:** 838010 / Comm Elect Mods

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	North Warning System (NWS)				- / -	- / 0.000	- / 7.991	- / 6.424	- / -	- / 6.424
P-40a	Air Traffic Control, Approach, and Landing System (ATCALs)				- / 0.000	- / 1.858	- / 1.882	- / 1.890	- / 0.000	- / 1.890
P-40a	National Airspace System (NAS) Plan				- / 0.000	- / 6.278	- / 3.668	- / 2.448	- / 0.000	- / 2.448
P-40a	Tactical Data Networks Enterprise				- / -	- / 6.027	- / 7.930	- / 7.845	- / -	- / 7.845
P-40	Total Gross/Weapon System Cost				- / -	- / 14.163	- / 21.471	- / 18.607	- / -	- / 18.607

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

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

Justification:
 PE 0102412F North Warning Systems POR - P-40A Talon Archer
 FY22 funding procures antenna parts for Talon Archer North Warning System Sites.

PE 0305114F Air Traffic Control and Landing Systems (ATCALs) - P-40A - Low Cost Modifications
 FY22 funds continue ATCALs low cost modifications as prioritized by the WSR-EC.

PE 0305137F National Airspace System (NAS) - P-40A Low Cost Mods/NAS Mods
 FY22 funding continues NAS Low Cost Modifications (NAS Mod 2) and mitigation of diminishing manufacturing sources (NAS Mod 4).

PE 0604281F Tactical Data Networks Enterprise - P-40A
 FY22 funding required to procure Tactical Data Link Planning Analysis and Monitoring Tool.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8	P-1 Line Item Number / Title: 838010 / Comm Elect Mods	Aggregated Items Title: North Warning System (NWS)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Talon Archer																				
Antenna Parts	A		-	-	-	-	-	0.000	-	-	7.991	-	-	6.424	-	-	-	-	-	6.424
Subtotal: Talon Archer			-	-	-	-	-	0.000	-	-	7.991	-	-	6.424	-	-	-	-	-	6.424
Total			-	-	-	-	-	0.000	-	-	7.991	-	-	6.424	-	-	-	-	-	6.424

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

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2022 Air Force														Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8						P-1 Line Item Number / Title: 838010 / Comm Elect Mods						Aggregated Modification Items Title: Air Traffic Control, Approach, and Landing System (ATCALs)							

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
P-3A Low Cost Mods / ATCALs Low Cost Mods (PE 0305114F)			-	-	-	-	-	1.858	-	-	1.882	-	-	1.890	-	-	-	-	-	1.890
Total			-	-	0.000	-	-	1.858	-	-	1.882	-	-	1.890	-	-	0.000	-	-	1.890

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

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
P-3A Low Cost Mods / ATCALs Low Cost Mods (PE 0305114F)	ATCALs	Reliability & Maintainability

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 **P-1 Line Item Number / Title:** 838010 / Comm Elect Mods **Aggregated Modification Items Title:** National Airspace System (NAS) Plan

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
NAS Mod 2 / NAS Low Cost Mods			-	-	-	-	-	1.854	-	-	1.892	-	-	1.850	-	-	-	-	-	1.850
NAS Mod 3 / DASR Site Control Data Interface (SCDI)			-	-	-	-	-	4.424	-	-	-	-	-	-	-	-	-	-	-	-
NAS Mod 4 / National Airspace System (NAS) Mod 4			-	-	-	-	-	-	-	-	1.776	-	-	0.598	-	-	-	-	-	0.598
Total			-	-	0.000	-	-	6.278	-	-	3.668	-	-	2.448	-	-	0.000	-	-	2.448

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

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
NAS Mod 2 / NAS Low Cost Mods	NAS	Reliability & Maintainability
NAS Mod 3 / DASR Site Control Data Interface (SCDI)	NAS	Reliability & Maintainability
NAS Mod 4 / National Airspace System (NAS) Mod 4	NAS	Reliability & Maintainability

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date: May 2021**

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 **P-1 Line Item Number / Title:** 838010 / Comm Elect Mods **Aggregated Items Title:** Tactical Data Networks Enterprise

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Tactical Data Network Enterprise PE 64281F																				
Tactical Data Link Planning Analysis and Monitoring Tool	A		-	-	-	0.156	31	4.836	0.211	27	5.697	0.216	33	7.128	-	-	-	0.216	33	7.128
Program Support Costs	A		-	-	-	1.191	1	1.191	0.469	1	0.469	0.717	1	0.717	-	-	-	0.717	1	0.717
Additional Equipment (TNPs)	A		-	-	-	-	-	0.000	0.028	63	1.764	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Tactical Data Network Enterprise PE 64281F			-	-	-	-	-	6.027	-	-	7.930	-	-	7.845	-	-	-	-	-	7.845
Total			-	-	-	-	-	6.027	-	-	7.930	-	-	7.845	-	-	-	-	-	7.845

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date: May 2021**

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 / Personal Safety and Rescue 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: 0207227F, 0604706F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	111.034	49.578	106.449	-	106.449	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	111.034	49.578	106.449	-	106.449	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	111.034	49.578	106.449	-	106.449	-	-	-	-	-	-

(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 that enhance warfighter performance, protection, and survivability.

Guardian Angel Family of Systems (GA FoS):

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. GA FoS is employed by three distinct Air Force Specialties: Pararescuemen (PJ), Survival, Evasion, Resistance, and Escape (SERE) and Combat Rescue Officer (CRO). GA FoS is comprised of nine critical mission areas: Precision Aerial Insertion, Information Management, Force Application, Visual Augmentation, Maritime Recovery, Ground Mobility, Technical Rescue, Medical and SERE. Representative items include but are not limited to parachute equipment, technical recovery equipment, information management systems (including Preservation of the Force and Family), enhanced night vision systems, support equipment vehicles and ground transportation, rescue watercraft and a Live Virtual Constructive (LVC) Training Simulator (simulator, maintenance & mobile shelter costs) to supplement, augment, and optimize current training events, independent of aircraft availability to align with strategic plans of the Next Generation LVC for training within the DoD. The enhanced night vision systems will include continued Procurement of Night Vision solutions that improve personnel recovery night 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. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. This includes applicable training, spares, and repairs. Starting FY17 and thereafter, all funding and tasks for BPAC 842140 Night Vision Goggles have been moved to BPAC 842990 Personal Safety and Rescue Equipment. This funding request will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity. Due to rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements. Funding for GA FoS is in Program Element 0207227F.

Special Tactics/Combat Control Special Warfare:

SPECIAL WARFARE ACQUISITION GROWTH AND REFRESH (SWAGR). Program name was changed from BATTLEFIELD AIRMEN OPERATIONS KIT (BAO Kit) to SPECIAL WARFARE ACQUISITION GROWTH AND REFRESH (SWAGR) to reflect the scope of the new AFSOC Capabilities Development Document (CDD) managing the program. The SWAGR program funds Air Force standardized equipment within the overarching Special Warfare Modernization program for Special Tactics combat controllers, pararescue personnel, combat weather operators, and tactical air control parties to perform their Air Force Special Operations Command Mission. Funding for this effort is in program element 0408011F. Representative items include but are not limited to training and simulators, assault zone, airfield marking tools, approach landing capability, weather data collection and analysis, personnel and technical recovery equipment, visual augmentation, unmanned capabilities, aerial insertion, ground transportation and vehicular support equipment, 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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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 / Personal Safety and Rescue Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0207227F, 0604706F
Line Item MDAP/MAIS Code: N/A		
<p>buys limited to the program of record quantity. Due to the rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements.</p> <p>Modern warfare resulted in an increase in airborne combat under the cover of darkness. Night missions include ground operations, preparation of the aircraft for take-off and landings in complete darkness, lights-off air refueling, and visual identification of enemy targets hidden under the night sky. Consequently, ground personnel and aircrew require the capability to see in very low visibility conditions at night and high ambient light conditions such as full moon or heavily lighted residential areas. The use of Night Vision Goggles (NVG) is critical for combat rescue, special operations, and homeland security missions.</p> <p>A lack of night vision capability would significantly decrease combat effectiveness in night operations, risk flight safety, and increase the probability of fratricide. Aircraft such as HH-60 helicopters, HC-130s, F-16s, and special mission C-130s primarily operate in low altitude environments during covert night operations. Hence, NVGs are vital to the success of these missions, providing a dramatic increase in safety, situational awareness, and survivability during the execution of near daytime tactics, including visual formation criteria. Furthermore, the proliferation of NVG-equipped adversaries underscores the urgent need to supply ground and air forces with night vision equipment.</p> <p>Program changes in progress. This applies to PEC 0408011F.</p> <p>Human Systems Program Office Items Less than 5M: This program saves Airmen's lives and improves aircrew performance through better aircrew flight equipment and airman combat systems. Procures safety and rescue equipment for increased protection of aircrew personnel operating manned, non-space aircraft to optimize weapon system effectiveness and capability throughout the full spectrum of military operations. In general, the purpose of the PE is to expand the combat capabilities of a weapon system an airman supports while balancing functionality, comfort, and safety. Representative items include flight helmets, oxygen breathing equipment, flame resistant/retardant and blast/ballistic protective gear, laser eye protection, personnel locator beacons, nuclear flash blindness devices, personnel parachutes, ejection seats/equipment, night vision goggles, survival radios, associated test sets, life rafts, life preservers, anti-exposure coveralls, aircrew flight ensembles, physiological monitoring devices, test sets & Time Compliance Technical Order (TCTO) Kits and other air/ground crew equipment. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p> <p>Next-Gen Fixed Wing Helmet (NGFWH) serves to provide performance and sustainability upgrades to the current HGU-55P helmet that the fixed wing community across the USAF utilizes today, with the exception of F-35. Current helmets are outdated and not optimized to be used in parallel with current helmet mounted display systems, which provide the warfighter day and night-time vision and cueing capabilities. NGFWH primary goals are to provide a helmet upgrade that will provide a more stable, balanced helmet, while still being compatible with current equipment used on the legacy helmet. In addition, the NGFWH will also provide improved noise and impact protection, situational awareness, endurance, protection, all while decreasing the logistical footprint to maintain/sustain the helmet.</p> <p>Next Generation Ejection Seat (NGES) escape system shall safely accommodate greater variation in aircrew minimum/maximum weights, a minimum aircrew sitting height of 31 inches, and the use of Helmet Mounted Displays. It shall reduce the risk of injuries to the arms and legs (especially limb flail), neck, and spinal column throughout the entire ejection event.</p> <p>Ground and Aircrew Night Vision Goggles (NVG) and Binocular Night Vision Device (BNVD) with associated Test Sets and Kits. The type of NVGs includes the monocular night vision device which is a hand-held, head-mounted, helmet-mounted, or weapon-mounted night vision system that enables walking, weapon firing, short-range surveillance, map reading, vehicle maintenance, and first-aid administration during moonlight and starlight conditions. The difference types of NVGs support a vast spectrum of ground and air operations to include aircraft maintenance, civil engineering, emergency response, security, and other missions. NVGs and BNVDs Test Set & TCTO Kits includes portable instrument allowing a quick and accurate evaluation and adjustment of all goggle parameters.</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.</p> <p>Funding for this exhibit contained in PEs 0207227F, 0207433F, 0408011F, 0503113F and 0702833F.</p>		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 / Personal Safety and Rescue 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: 0207227F, 0604706F
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Line Item MDAP/MAIS Code: N/A

Projected allocations for component requirements are subject to total force demands and priorities. Funds may be used to address associated program management activities, emerging requirements, and short-notice Diminishing Manufacturing Sources and Material Shortage (DMSMS) issues./span

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	4,766	2,938	6,183	0	6,183	-	-	-	-
	Total Obligation Authority	110.884	49.391	106.914	0.000	106.914	-	-	-	-
AFNG	Quantity	10	12	0	0	0	-	-	-	-
	Total Obligation Authority	0.100	0.132	0.000	0.000	0.000	-	-	-	-
AFR	Quantity	5	5	0	0	0	-	-	-	-
	Total Obligation Authority	0.050	0.055	0.000	0.000	0.000	-	-	-	-
Total: Secondary Distribution	Quantity	4,781	2,955	6,183	0	6,183	-	-	-	-
	Total Obligation Authority	111.034	49.578	106.914	0.000	106.914	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 / Personal Safety and Rescue Equipment

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207227F, 0604706F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Guardian Angel		A		- / -	- / 22.295	- / 22.669	- / 23.072	- / -	- / 23.072
P-5	Special Tactics/Combat Control Equipment		A		- / -	- / 6.299	- / 2.502	- / 21.647	- / -	- / 21.647
P-40a	Items Less Than \$5 Million				- / -	- / 82.440	- / 24.407	- / 62.195	- / -	- / 62.195
P-40	Total Gross/Weapon System Cost				- / -	- / 111.034	- / 49.578	- / 106.449	- / -	- / 106.449

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

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

Justification:
 FY22 procurement dollars procure aircrew flight equipment, life support systems, ground crew equipment, and Guardian Angel equipment.

 FY22- PE 72833F (Life Support Systems) reduced \$-53.2M for rephase of Next Gen Ejection Seat to FY 24-25

 Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 2		P-1 Line Item Number / Title: 842990 / Personal Safety and Rescue Equipment
		Item Number / Title [DODIC]: Guardian Angel

ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	22.295	22.669	23.072	-	23.072
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	22.295	22.669	23.072	-	23.072
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				-	22.295	22.669	23.072	-	23.072
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)				-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Guardian Angel Cost																		
Recurring Cost																		
Aerial Insertion Equipment	-	-	-	0.015	771	11.565	0.015	785	11.770	0.015	787	11.708	-	-	-	0.015	787	11.708
Technical Recovery Equipment	-	-	-	0.072	22	1.584	0.079	20	1.580	0.079	25	1.975	-	-	-	0.079	25	1.975
Medical Equipment	-	-	-	0.025	1	0.025	0.020	1	0.020	0.020	1	0.020	-	-	-	0.020	1	0.020
Maritime Rescue Equipment	-	-	-	0.025	1	0.025	0.026	1	0.026	0.026	1	0.026	-	-	-	0.026	1	0.026
Information Management Equipment	-	-	-	0.002	750	1.500	0.002	775	1.550	0.002	790	1.580	-	-	-	0.002	790	1.580
SERE	-	-	-	0.025	1	0.025	0.020	1	0.020	0.020	1	0.020	-	-	-	0.020	1	0.020
Guardian Angel Enhanced Night Vision Systems	-	-	-	0.018	278	5.004	0.018	283	5.090	0.018	285	5.130	-	-	-	0.018	285	5.130
PMA Contractor Services	-	-	-	2.567	1	2.567	2.613	1	2.613	2.613	1	2.613	-	-	-	2.613	1	2.613
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	22.295	-	-	22.669	-	-	23.072	-	-	-	-	-	23.072
<i>Subtotal: Hardware - Guardian Angel Cost</i>	-	-	-	-	-	22.295	-	-	22.669	-	-	23.072	-	-	-	-	-	23.072
Gross/Weapon System Cost	-	-	-	-	-	22.295	-	-	22.669	-	-	23.072	-	-	-	-	-	23.072

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Exhibit P-5, Cost Analysis: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 2	P-1 Line Item Number / Title: 842990 / Personal Safety and Rescue Equipment	Item Number / Title [DODIC]: Guardian Angel
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-
	Total Obligation Authority	22.295	22.669	23.072	23.072
Total: Secondary Distribution	Quantity	-	-	-	-
	Total Obligation Authority	22.295	22.669	23.072	23.072

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 2	P-1 Line Item Number / Title: 842990 / Personal Safety and Rescue Equipment	Item Number / Title [DODIC]: Special Tactics/Combat Control Equipment

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	6.299	2.502	21.647	-	21.647
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	6.299	2.502	21.647	-	21.647
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	6.299	2.502	21.647	-	21.647

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

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

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

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Special Tactics/Combat Control Equipment Cost																		
Recurring Cost																		
Aerial Insertion Equipment	-	-	-	0.015	285	4.285	0.015	84	1.273	0.015	615	9.225	-	-	-	0.015	615	9.225
Maritime Rescue Equipment	-	-	-	0.026	25	0.650	0.026	10	0.260	0.026	241	6.260	-	-	-	0.026	241	6.260
Technical Recovery Equipment	-	-	-	0.079	14	1.106	0.079	9	0.711	0.079	70	5.553	-	-	-	0.079	70	5.553
Vehicular Equipment	-	-	-	0.240	1	0.240	0.240	1	0.240	0.296	2	0.591	-	-	-	0.296	2	0.591
Visual Augmentation Capabilities	-	-	-	0.018	1	0.018	0.018	1	0.018	0.018	1	0.018	-	-	-	0.018	1	0.018
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.299	-	-	2.502	-	-	21.647	-	-	-	-	-	21.647
<i>Subtotal: Hardware - Special Tactics/Combat Control Equipment Cost</i>	-	-	-	-	-	6.299	-	-	2.502	-	-	21.647	-	-	-	-	-	21.647
Gross/Weapon System Cost	-	-	-	-	-	6.299	-	-	2.502	-	-	21.647	-	-	-	-	-	21.647

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	6.299	2.502	21.647	-	21.647
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 2	P-1 Line Item Number / Title: 842990 / Personal Safety and Rescue Equipment	Item Number / Title [DODIC]: Special Tactics/Combat Control Equipment
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Secondary Distribution	Total Obligation Authority	6.299	2.502	21.647	-	21.647

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 2					P-1 Line Item Number / Title: 842990 / Personal Safety and Rescue Equipment										Aggregated Items Title: Items Less Than \$5 Million					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Safety/Rescue/Aircrew Flight Equipment																				
COVID-19 JUON Patient Transportation Equipment	A		-	-	-	-	-	41.900	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	41.900	-	-	-	-	-	-	-	-	-	-	-	
PMA (Life Support) Other Government Cost/A&AS Support	A		-	-	-	-	-	1.050	-	-	1.880	-	-	1.511	-	-	-	-	1.511	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.050	-	-	1.880	-	-	1.511	-	-	-	-	1.511	
Life Support Equipment	A		-	-	-	-	-	1.308	-	-	0.000	-	-	0.346	-	-	-	-	0.346	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	1.308	-	-	0.000	-	-	0.346	-	-	-	-	0.346	
Aircrew Flight Equipment	A		-	-	-	-	-	0.746	-	-	0.000	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.746	-	-	0.000	-	-	-	-	-	-	-	-	
Aircrew Laser Eye Protection - Technical Insertion (ALEP-TI)	A		-	-	-	0.001	4,600	4,600	0.001	2,900	3,997	0.001	6,039	6,039	-	-	-	0.001	6,039	
<i>Secondary Distribution</i>																				
AF			-	-	-	4,600	4,600	4,600	2,900	3,997	3,997	6,039	6,039	-	-	-	-	6,039	6,039	
Next Generation Fixed Wing Helmet	A		-	-	-	-	-	-	-	-	-	-	-	4,500	-	-	-	-	4,500	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	-	-	4,500	-	-	-	-	4,500	
Night Vision Goggle Enduring Capability	A		-	-	-	-	-	19,200	-	-	12,112	-	-	11,641	-	-	-	-	11,641	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	19,200	-	-	12,112	-	-	11,641	-	-	-	-	11,641	
Integrated Aircrew Ensemble	A		-	-	-	0.061	131	7,991	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	131	131	7,991	-	-	-	-	-	-	-	-	-	-	-	
Ejection Seat Safety/ Sustainability Improvement Program	A		-	-	-	-	-	5,100	-	-	1,465	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	5,100	-	-	1,465	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 2 **P-1 Line Item Number / Title:** 842990 / Personal Safety and Rescue Equipment **Aggregated Items Title:** Items Less Than \$5 Million

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Next Generation Ejection Seat	A		-	-	-	-	-	0.000	-	-	0.000	0.833	44	36.662	-	-	-	0.833	44	36.662
<i>Secondary Distribution</i>																				
AF				-	-	-	-	0.000			0.000		44	36.662			-		44	36.662
Female Fitment Equipment	A		-	-	-	-	-	-	-	-	4.000	-	-	0.000	-	-	-	-	-	0.000
<i>Secondary Distribution</i>																				
AF				-	-	-	-	-	-	-	4.000		-	0.000			-		-	0.000
Groundcrew Night Vision Goggles	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fusion Goggle Enhanced	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aircrew Night Vision Goggles	A		-	-	-	0.010	50	0.500	0.011	55	0.605	0.012	100	1.166	-	-	-	0.012	100	1.166
<i>Secondary Distribution</i>																				
AF				-	-		35	0.350		38	0.418		100	1.166			-		100	1.166
AFNG				-	-		10	0.100		12	0.132		-	-			-		-	-
AFR				-	-		5	0.050		5	0.055		-	-			-		-	-
Groundcrew Night Vision Goggles (AN/ PVS 31C)	A		-	-	-	-	-	0.025	-	-	0.028	-	-	0.030	-	-	-	-	-	0.030
<i>Secondary Distribution</i>																				
AF				-	-		-	0.025		-	0.028		-	0.030			-		-	0.030
PMA (NVG) Other Government Cost	A		-	-	-	-	-	0.020	-	-	0.320	-	-	0.300	-	-	-	-	-	0.300
<i>Secondary Distribution</i>																				
AF				-	-		-	0.020		-	0.320		-	0.300			-		-	0.300
Subtotal: Safety/Rescue/Aircrew Flight Equipment			-	-	-	-	-	82.440	-	-	24.407	-	-	62.195	-	-	-	-	-	62.195
Total			-	-	-	-	-	82.440	-	-	24.407	-	-	62.195	-	-	-	-	-	62.195

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

Remarks:
Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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: 843040 / Power Conditioning 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	11.000	11.704	11.274	-	11.274	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	11.000	11.704	11.274	-	11.274	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	11.000	11.704	11.274	-	11.274	-	-	-	-	-	-

(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:

Description:
Power Conditioning & Continuation Interfacing Equipment (PCCIE):

The PCCIE program Office procures, replaces and modernizes uninterruptible power supply (UPS) systems to meet Air Force requirements. The Uninterruptible Power Supply (UPS) systems protect sensitive electronic equipment/systems such as command and control centers, intelligence missions, radars, etc. Many of these systems have exceeded the life expectancy of 12-15 years. PCCIE program is structured into small projects (from 3 - 125 kilovolt amps (kva)) and large projects (greater than 125 kva) and includes associated ancillary equipment.

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

Program elements associated with this are: 27510F, 52834F, and 52844F.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	0	0	0	0	-	-	-	-
	Total Obligation Authority	10.024	10.711	10.270	0.000	10.270	-	-	-
AFNG	Quantity	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.868	0.882	0.891	0.000	0.891	-	-	-
AFR	Quantity	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.108	0.111	0.113	0.000	0.113	-	-	-
Total:	Quantity	0	0	0	0	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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: 843040 / Power Conditioning 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

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondary Distribution	Total Obligation Authority	11.000	11.704	11.274	0.000	11.274	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 843040 / Power Conditioning Equipment

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Power Conditioning Equipment				- / -	- / 11.000	- / 11.704	- / 11.274	- / -	- / 11.274
P-40	Total Gross/Weapon System Cost				- / -	- / 11.000	- / 11.704	- / 11.274	- / -	- / 11.274

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

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

Justification:
 Justification:
 To guarantee continuation of operations in the event of power surges or failures PCCIE is the last line of defense for critical intelligence, satellite, radar, airfield and computer systems.

PE 27510F - FY 22 funds procure:

The new systems collectively satisfy critical user requirements and will:

1. Reduce overall footprint and weight by 50-60%.
2. Reduce operating and sustainment costs by 30%-50%.
3. Reduce acquisition costs as it applies to installation since many newer systems consist of more internal pre-wiring.
4. Lower parts count dramatically improves reliability by reducing the potential points of failure within the system.
5. Produce greater energy savings and higher operating efficiency in all configurations, typically between 92% and 93.5%; with all types of loads.

Due to increasing workload, \$292K of the PCCIE budget was convert to civ payroll.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force															Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 3					P-1 Line Item Number / Title: 843040 / Power Conditioning Equipment					Aggregated Items Title: Power Conditioning Equipment										
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Equipment																				
Power Conditioning Equipment	A		-	-	-	-	-	11.000	-	-	11.704	-	-	11.274	-	-	-	-	-	11.274
<i>Secondary Distribution</i>																				
AF				-	-		-	10.024		-	10.711		-	10.270		-	-		-	10.270
AFNG				-	-		-	0.868		-	0.882		-	0.891		-	-		-	0.891
AFR				-	-		-	0.108		-	0.111		-	0.113		-	-		-	0.113
Subtotal: Equipment			-	-	-	-	-	11.000	-	-	11.704	-	-	11.274	-	-	-	-	-	11.274
Total			-	-	-	-	-	11.000	-	-	11.704	-	-	11.274	-	-	-	-	-	11.274

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	11.901	12.110	8.594	-	8.594	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	11.901	12.110	8.594	-	8.594	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	11.901	12.110	8.594	-	8.594	-	-	-	-	-	-

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

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

Description:

The Mechanized Materials Handling Equipment (MMHE) line provides funding for Mechanized Materials Handling Systems (MMHS) and Storage Aids Systems (SAS).

MMHS and SAS equipment provides bases worldwide with static and automated equipment to efficiently store, receive, and ship materiel. MMHS and SAS equipment involves the design and acquisition of mechanized and non-mechanized materials handling systems to modernize and enhance supply operations, base-level aircraft maintenance, air transportation missions, and other warehouse and storage processes.

Most MMHE is one of the following equipment types:

- Material Storage and Distribution Systems which are mechanized systems to receive, store, and ship material in a warehouse or aircraft hangar. Often these types of systems also include non-mechanized equipment listed under storage aids systems.
- Storage Aids Systems which consist of non-mechanized equipment including racks, shelving, modular cabinets, mezzanines and mobile aisle systems.
- Aerial Port Equipment for air transportation which includes heavy duty freight handling 463L pallet 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 systems; and inbound and outbound baggage conveyors and passenger boarding bridges for air passenger terminals.
- External Aircraft Fuel Tank Storage Systems which are used to store and access external aircraft fuel tanks.

Adequately equipped facilities are essential to the storage and handling of weapon system components, mobility gear, supply items, and for rapid processing of personnel, freight, and baggage. Proper MMHE reduces pipeline time, reduces damage to weapon system components during handling and storage, and enhances personnel safety. MMHE provides enhanced Air Force capability to respond to crises and threats whenever they occur in the world.

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 0207510F, 0207597F, 0502834F, and 0502844F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force							Date: May 2021			
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										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	22	18	14	0	14	-	-	-	-
	Total Obligation Authority	9.243	7.710	6.794	0.000	6.794	-	-	-	-
AFNG	Quantity	4	10	4	0	4	-	-	-	-
	Total Obligation Authority	1.683	4.000	1.350	0.000	1.350	-	-	-	-
AFR	Quantity	1	1	1	0	1	-	-	-	-
	Total Obligation Authority	0.975	0.400	0.450	0.000	0.450	-	-	-	-
Total:	Quantity	27	29	19	0	19	-	-	-	-
Secondary Distribution	Total Obligation Authority	11.901	12.110	8.594	0.000	8.594	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Mechanized Material Handling Equip				- / -	- / 11.901	- / 12.110	- / 8.594	- / -	- / 8.594
P-40	Total Gross/Weapon System Cost				- / -	- / 11.901	- / 12.110	- / 8.594	- / -	- / 8.594

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

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

Justification:
 FY22 procurement funds for MMHS/SAS equipment increases the productivity of Air Force operations, enhances management control of assets, reduces multiple handling of logistics materiel by consolidating assets, enhances safety, reduces losses due to damage of materiel during storage and transport, and reduces congestion and delays in the receiving, storage and issue operations in supply, base-level aircraft maintenance, air transportation, and other warehouse and storage facilities. Aerial port MMHE is vital to maintain and enhance rapid deployment and sustainment capabilities.
 FY22 MMHE is to be purchased in the following quantities: 7 material storage and distribution systems, 7 storage aid systems, 3 aerial port equipment systems, and 1 external aircraft fuel tank storage system.
 Program Management Administration funds for other Government costs are included.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 3 **P-1 Line Item Number / Title:** 843050 / Mechanized Material Handling Equip **Aggregated Items Title:** Mechanized Material Handling Equip

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
MECHANIZED MATERIALS HANDLING EQUIPMENT																				
PMA Other Government Costs	A		-	-	-	-	-	-	-	-	-	0.150	1	0.150	-	-	-	0.150	1	0.150
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-		1	0.150					1	0.150
MATERIAL STORAGE AND DISTRIBUTION SYSTEMS	A		-	-	-	0.571	13	7.417	0.558	8	4.463	0.436	7	3.050	-	-	-	0.436	7	3.050
<i>Secondary Distribution</i>																				
AF							10	5.355		5	3.063		6	2.650					6	2.650
AFNG							2	1.087		2	1.000		1	0.400					1	0.400
AFR							1	0.975		1	0.400		-	-					-	-
STORAGE AIDS SYSTEMS	A		-	-	-	0.213	10	2.127	0.312	20	6.247	0.271	7	1.900	-	-	-	0.271	7	1.900
<i>Secondary Distribution</i>																				
AF							9	1.931		12	3.247		4	0.950					4	0.950
AFNG							1	0.196		8	3.000		3	0.950					3	0.950
AERIAL PORT EQUIPMENT	A		-	-	-	0.589	4	2.357	1.400	1	1.400	0.811	3	2.432	-	-	-	0.811	3	2.432
<i>Secondary Distribution</i>																				
AF							3	1.957		1	1.400		2	1.982					2	1.982
AFNG							1	0.400		-	-		-	-					-	-
AFR							-	-		-	-		1	0.450					1	0.450
EXTERNAL AIRCRAFT WING TANK STORAGE SYSTEM	A		-	-	-	-	-	-	-	-	-	1.062	1	1.062	-	-	-	1.062	1	1.062
<i>Secondary Distribution</i>																				
AF							-	-		-	-		1	1.062					1	1.062
NUCLEAR WEAPONS SUSTAINMENT	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: MECHANIZED MATERIALS HANDLING EQUIPMENT			-	-	-	-	-	11.901	-	-	12.110	-	-	8.594	-	-	-	-	-	8.594
Total			-	-	-	-	-	11.901	-	-	12.110	-	-	8.594	-	-	-	-	-	8.594

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment	P-1 Line Item Number / Title: 845010 / Base Procured Equipment
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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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	33.663	24.592	0.001	-	0.001	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	33.663	24.592	0.001	-	0.001	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	33.663	24.592	0.001	-	0.001	-	-	-	-	-	-

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

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

Description:

Base Procured Equipment:

Organizations throughout the Air Force acquire authorized investment equipment from the General Services Administration, Defense Logistics Agency, and commercial sources when these items exceed \$250,000 in cost or are unavailable through Air Force central procurement. Examples of equipment in this P-1 line typically include equipment and/or specialized tools for road and ground maintenance; vehicle maintenance; vehicle corrosion control; civil engineering maintenance; electrical and carpentry shops; specialized laboratories; kitchen and dining facilities; printing plants; microfilm, graphics support facilities; training ranges; uninterruptible power supply systems, physiological trainers to include, but are not limited to Barney Chairs, Altitude Chambers, Spatial Disorientation Trainers, Hypoxia Familiarization Trainers and Part Task Trainers, Reduced Oxygen Breathing Devices, Terrain Boards, Parachuting Trainers, Aircrew Exercise Equipment.

Funding for this exhibit contained in PEs 0101213F, 0202834F, 0207142F, 0207588F, 0208007F, 0208015F, 0305207F, 0402834F, 0502834F, 0502844F, 0702834F, 0804701F, 0804731F, 0804752F.

Justification:

No funding requested in FY22.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	16	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	39.887	50.072	20.872	32.139	-	32.139	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	39.887	50.072	20.872	32.139	-	32.139	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	39.887	50.072	20.872	32.139	-	32.139	-	-	-	-	-	-

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	2.493	-	-	-	-	-	-	-	-	-	-	-

Description:

FY21 funding totals include \$13.172 million appropriated for Overseas Contingency Operations.

The FY22 funding request was reduced by \$7.685 million to account for the availability of prior year execution balances.

EOD (Explosive Ordnance Disposal Forces): Explosive Ordnance Disposal (EOD) team's equipment requirements in countering explosive threats in garrison and deployed locations. Funding for this exhibit contained in PE 0204424F.

Nuclear/Chemical/Biological Defense: Radiological Detection System (RDS) for Emergency Management, and AFRAT. Funding for this exhibit contained in PE 0207593F.

RED HORSE Vehicles: large and medium-sized robots used to interrogate and defeat Improvised Explosive Devices (IEDs) in garrison and downrange.

Rapid Airfield Damage Recovery (RADR): Rapid Explosive Hazard Mitigation (REHM) Family of Systems (FoS) Remote Mass Mechanical Clearance (RMMC) protected vehicle capability designed to rapidly clear unexploded ordnance from airfields after attack. Funding for this exhibit contained in PE 0208028F.

Rapid Airfield Damage Assessment Systems (RADAS) enable restored operations and logistics under attack. Funding for this exhibit contained in PE 0208028F.

Expedient Small Asset Protection (ESAP) systems are designed to provide protection to small aircraft and priority assets as a component of passive defense. Funding for this exhibit contained in PE 0208028F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment

P-1 Line Item Number / Title:
845100 / Engineering and EOD Equipment

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0205671F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Engineering and EOD Equipment				- / 39.887	- / 50.072	- / 20.872	- / 32.139	- / -	- / 32.139
P-40	Total Gross/Weapon System Cost				16 / 39.887	- / 50.072	- / 20.872	- / 32.139	- / -	- / 32.139

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

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

Justification:

FY22 Baseline funding of 17.160M in PEC 0204424F will procure Explosive Ordnance Disposal (EOD) capabilities in the following quantities: 17.113M purchases 44 each unmanned systems (large-size ground robotics).

FY22 Baseline Funding of 3.000M Nuclear/Chemical/Biological Defense in PEC 0207593F will procure Radiological Detection Systems (RDS): 3.000M procures 250 RDS.

FY22 Baseline Funding 16.799M in PEC 0208028F will procure Rapid Explosive Hazard Mitigation (REHM) Family of Systems (FoS) in the following quantities: 16.799M procures 17 armored front end loaders.

FY22 Baseline Funding 3.241M in PEC 0208028F will procure Rapid Airfield Damage Assessment Systems (RADAS). Funding will procure following quantities: 3.241M procures 6 each RADAS systems

FY22 WSC ER coded funds 49.429M in PEC 0208028F will procure Expeditionary Small Asset Protection (ESAP) systems. Funding will procure the following quantities: 49.050M procures 9 each ESAP systems; 0.379M procures ESAP shelter support.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 5 **P-1 Line Item Number / Title:** 845100 / Engineering and EOD Equipment **Aggregated Items Title:** Engineering and EOD Equipment

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Total Containment Vessel	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EOD Next Gen Portable Imaging Systems	A		-	-	-	-	-	-	0.015	314	4.633	-	-	-	-	-	-	-	-	
EOD Radiological Detection Systems (RDS)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EOD Unmanned Systems (Large)	A		-	-	-	0.180	30	5.403	0.390	32	12.480	0.390	44	17.160	-	-	-	0.390	44	17.160
EOD Unmanned Systems (Medium)	A		-	-	-	0.161	139	22.446	-	-	-	-	-	-	-	-	-	-	-	
Recovery of Airfield Denied By Ordnance (RADBO) system - RADR Family of Systems	A		-	-	-	5.317	1	5.317	-	-	-	-	-	-	-	-	-	-	-	
EOD-M Mini Remote Firing Device	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rapid Airfield Damage Assessment Systems (Spiral 1)	A		-	-	-	0.511	3	1.533	-	-	-	0.540	6	3.241	-	-	-	0.540	6	3.241
Rapid Explosive Hazard Mitigation (REHM)	A		-	-	-	-	-	-	-	-	-	1.092	8	8.738	-	-	-	1.092	8	8.738
CBRN Radiological Detection Systems (RDS)	A		-	-	-	-	-	-	0.012	250	2.997	0.012	250	3.000	-	-	-	0.012	250	3.000
RECOVERY REPAIR KIT - R1 (Medium Sized Kit)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tactical Communication Packages (Harris Equipment)	A		-	-	-	-	-	-	0.024	32	0.762	-	-	-	-	-	-	-	-	
ESAP Shelters	A		5.100	1	5.100	4.722	3	14.167	-	-	-	-	-	-	-	-	-	-	-	
ESAP Type II Shelters	A		2.300	14	32.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ESAP Shelter Support	A		2.587	1	2.587	1.206	1	1.206	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	39.887	-	-	50.072	-	-	20.872	-	-	32.139	-	-	-	-	-	32.139
Total			-	-	39.887	-	-	50.072	-	-	20.872	-	-	32.139	-	-	-	-	-	32.139

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	52.974	51.960	63.814	-	63.814	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	52.974	51.960	63.814	-	63.814	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	52.974	51.960	63.814	-	63.814	-	-	-	-	-	-

(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:

FY 20 funding totals include 26.535 appropriated for Overseas Contingency Operations (European Defense Initiative).
 FY 21 funding totals include 33.694 appropriated for Overseas Contingency Operations (European Defense Initiative).
 FY22 funding totals include 43.024 requested for Direct War and/or Enduring Requirements (European Defense Initiative).

This program funds procurement of Basic Expeditionary Airfield Resources (BEAR). It includes, but is not limited to, 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. Prepositioned War Reserve Capabilities (PWRCs) (ashore and afloat) place military unit type equipment and supplies at or near the point of planned use to reduce reaction time and ensure timely support of a specific force during the initial phases of an operation. These assets provide combatant commanders with initial capabilities and materiel until establishment of a mature and sustained Strategic/Theater Distribution Network (TDP). (CJSCI 4310.01D)
 BEAR is one of five FORCE Generation Sets (FGS) and is composed of multiple air base capability packages to include: feeding, hygiene, water production, power production, airfield lighting, shelters, aircraft arresting systems, and environmental support equipment. FGS-BEAR provides personnel, infrastructure, and flight line support at forward operating sites (Establish the Base, Operate the Base) The program provides funding to procure new and replacement equipment items, and multi-media packages required to support BEAR training facilities at Silver Flag Sites, Regional Training Sites, Technical Schools, Technical Certification Centers, Services Combat Center Training, 635MMG, and Eagle Flag. Costs include inventory reconstitution, spares and consumables, repairs, and procurement of new equipment for upgrades or full UTC's replacement. This program serves a critical role in support of the Combatant Commanders (COCOM) requirements to support 5 Major OPLANS, and ensures the objectives of the Asian Pacific Stability and European Defense Initiatives can be executed.
 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).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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		

Expeditionary Airfield Lighting System (EALS)(Legacy): Light Emitting Diode (LED) and incandescent runway lighting system designed to be rapidly installed at contingency airfields and at other locations that need temporary airfield lighting. The lighting kit for runways includes runway edge and threshold lights, precision approach path indicator (PAPI), and strobe approach lights, distance to go marker lamps, taxi way lamps and battery-operated obstruction lights. The EALS also includes the generators, cables, control cables, transformers and regulators. The entire system is packaged on six (6) mobile trailers. System will be replaced with a Next Generation System over the FYDP.

Mobile Aircraft Arresting System: This air transportable barrier arresting Bak-12 mounted on a mobile trailer to accommodate the recovery of fighter aircraft returning to battle damaged airfield.

Hygiene: Hygiene includes Shower, Shave and Latrine, WH-400 water heaters for initial Hygiene fielding and Self Help Laundry system which provides personal hygiene facilities in support of BEAR bases.

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.

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.

Heating, Ventilating, and Air Conditioning (HVAC): provide thermal comfort and acceptable indoor air quality.

Environmental Control Unit (ECU): Heat Pump to provide cooling, heating via reversing valve (heat pump) and supplemental heat via resistance heat strips.

Training/Multi-Media Training - Provides BEAR and items for all training sites and funds for all required BEAR multi-media training requirements.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D

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

Funding for this exhibit contained in 0401135F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Mobility Equipment				- / -	- / 52.974	- / 51.960	- / 63.814	- / -	- / 63.814
P-40	Total Gross/Weapon System Cost				- / -	- / 52.974	- / 51.960	- / 63.814	- / -	- / 63.814

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

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

Justification:
 FY 2022 procurement dollars in the amount of \$63.814M will procure equipment in support of, but not limited to, the European Contingency Air Operations Set (ECAOS), Deployable Air Base Systems (DABS), Asian Pacific Stability Initiative, and other WRM Global Theater requirements. It will also provide for Program Management Administration (PMA) and other government associated costs in support installation and unit mission requirements for Air Force personnel.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 5 **P-1 Line Item Number / Title:** 845420 / Mobility Equipment **Aggregated Items Title:** Mobility Equipment

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BASE LIGHTING	A		-	-	-	31,000.00	116	3.596	41,000.00	6	0.246	44,000.00	12	0.528	-	-	-	44,000.00	12	0.528
BEAR High Power (BPU)	A		-	-	-	-	-	-	701,000.00	3	2.103	750,000.00	3	2.250	-	-	-	750,000.00	3	2.250
AIRFIELD LIGHTING	A		-	-	-	1,500K	8	12.000	1,500K	13	19.500	1,357K	12	16.284	-	-	-	1,357K	12	16.284
HYGIENE	A		-	-	-	422,000.00	24	10.128	-	-	-	422,000.00	4	1.688	-	-	-	422,000.00	4	1.688
WATER PRODUCTION	A		-	-	-	247,000.00	15	3.705	278,000.00	3	0.834	324,000.00	1	0.324	-	-	-	324,000.00	1	0.324
FEEDING	A		-	-	-	-	-	-	250,000.00	8	2.000	259,000.00	3	0.777	-	-	-	259,000.00	3	0.777
MOBILE AIRCRAFT ARRESTING SYSTEM	A		-	-	-	284,000.00	8	2.272	722,000.00	15	10.830	657,000.00	30	19.710	-	-	-	657,000.00	30	19.710
POWER PRODUCTION	A		-	-	-	19,000.00	263	4.997	21,000.00	138	2.898	23,000.00	159	3.657	-	-	-	23,000.00	159	3.657
SHELTERS	A		-	-	-	169,000.00	77	13.013	239,000.00	16	3.824	50,000.00	160	8.000	-	-	-	50,000.00	160	8.000
ENVIRONMENTAL	A		-	-	-	7,000.00	228	1.596	12,000.00	678	8.136	13,000.00	667	8.671	-	-	-	13,000.00	667	8.671
PMA - OTHER GOVERNMENT COST	A		-	-	-	204,000.00	1	0.204	-	-	-	-	-	-	-	-	-	-	-	-
PMA - CONTRACTOR SERVICES	A		-	-	-	793,000.00	1	0.793	597,000.00	1	0.597	1,020K	1	1.020	-	-	-	1,020K	1	1.020
TRANSPORTATION	A		-	-	-	670,000.00	1	0.670	496,000.00	2	0.992	5,000.00	181	0.905	-	-	-	5,000.00	181	0.905
Subtotal: Uncategorized			-	-	-	-	-	52.974	-	-	51.960	-	-	63.814	-	-	-	-	-	63.814
Total			-	-	-	-	-	52.974	-	-	51.960	-	-	63.814	-	-	-	-	-	63.814

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

Remarks:

Unit Costs for FY22 are assumed and subject to change.

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies, studies and Advisory and Administrative Services (A&AS).

PMA Other Contractor Services: This funding includes provisions for government contract oversight, technical expertise, and program office support associated with the BEAR program.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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: 845550 / Fuels Support Equipment (FSE)
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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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	28.295	11.378	17.928	-	17.928	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	28.295	11.378	17.928	-	17.928	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	28.295	11.378	17.928	-	17.928	-	-	-	-	-	-

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

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

Description:

FY20 funding totals include 4.044M appropriated for Overseas Contingency Operations
 FY21 funding totals include 1.777M appropriated for Overseas Contingency Operations
 FY22 funding totals include 7.993M requested for Direct War and/or Enduring Requirements.

This program funds for the procurement of Fuels Operational Readiness Capability Equipment (FORCE). It provides the capability to receive, store, and issue petroleum products and support aircraft generation where fixed systems do not exist or require augmentation. FORCE is a subset of the Pre-Positioned War Reserve Capabilities (PWRC), it is a Force Generation Set (FGS) that provides mission oriented operational capability packages/force modules aligned with the air and space expeditionary task force modules described in AFI 10-401, AF Operations Planning and Execution, and this instruction. This program serves a critical role in support of the Combatant Commanders(COCOM)requirements to support 5 Major OPLANS, and ensures the objectives of the Asian Pacific Stability and European Defense Initiatives can be executed.

Fuels Operational Readiness Capability Equipment (FORCE Starter (FS), Receipt (RC)and Sustainment (SC) is a deployable modular fuel system that can provide joint capability to fuel aircraft and support equipment at forward locations. The FORCE system can be configured to perform limited aircraft fueling missions or to sustain massive daily fueling requirements for months. FORCE is capable of receiving, transferring, and issuing fuel at a throughput rate of 900 Gallons per Minute (GPM). The individual pieces of equipment that comprise the FORCE system provide stand-alone or mix-and-match capability for almost any fuel transfer or aircraft refueling scenario. The full capability mission of the complete FORCE System, when used in conjunction with fabric fuel bladders, provides a deployable, above ground, constant pressure, flow-on demand fueling system for aircraft, i.e., a hydrant-type fueling system.

Aerial Bulk Fuel Delivery System (ABFDS), designed for aerial delivery of fuel to locations where other methods of transportation are impractical, it enables aircraft to rapidly transport fuel to locations close to or behind enemy lines. It is the key component to the AFSOC community and their ability to complete Forward Area Refueling Point missions(FARP).

3K Collapsible Fuel Tanks (CFT) are specifically designed to be loaded on military aircraft and withstand the critical demands put on them during flight operations, in conjunction with the ABFDS they provide the ability to transfer fuel from the aircraft storage bladder while aircraft engines are running.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
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: 845550 / Fuels Support Equipment (FSE)
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>Collapsible Fuel Tanks (CFT) or more commonly referred to as fuel bladders provide fuel storage capabilities at austere or forward operating locations where infrastructure is either inadequate or non-existent. Bladders sizes range from 10K, 50K and 210K gallons of fuel storage, these bladders are capable of holding a multitude of petroleum products to support both air and ground operations. Collapsible fuel tanks are used with Fuels Operational Readiness Capability Equipment (FORCE) to support various aircraft systems at forward operating locations.</p> <p>500 Gal LOX/Lin Tanks, are deployable liquid oxygen/liquid nitrogen storage tanks that can receive, store, and issue liquid oxygen or nitrogen products to service carts or smaller tanks. Provides bulk storage capacity and is used to fill smaller cryogenic equipment (8 Cylinder trailers, 50 Gallon LOX Tank) and aircraft.</p> <p>Fuels Pumping & Distribution provides multiple capabilities to receive and deliver petroleum products to initiate and sustain ground and air operations for both expeditionary and contingency operations. Ensures the ability to service smaller aircraft such as UAV's and base support vehicles, and increases the distance that fuel loads can be safely distributed to the base up to 3 miles.</p> <p>This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.</p> <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>Funding for this exhibit contained in PE 028031F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:** 845550 / Fuels Support Equipment (FSE)

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Fuels Support Equipment (FSE)				- / -	- / 28.295	- / 11.378	- / 17.928	- / -	- / 17.928
P-40	Total Gross/Weapon System Cost				- / -	- / 28.295	- / 11.378	- / 17.928	- / -	- / 17.928

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

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

Justification:
 FY22 procurement dollars in the amount of \$9.647M Base and \$7.993M OCO and \$1.341M FSE Base will combine for a total of \$18.981M. This will procure equipment in support of, but not limited to, the European Contingency Air Operations Set (ECAOS), Deployable Air Base Systems (DABS), Asian Pacific Stability Initiative, and other War Reserve Materiel Global Theater requirements. It also includes \$1.341M for AFCLMC/WNZ to procure FSE Operational assets at the direction of AFPET. It will also provide for Program Management Administration (PMA) and other government associated costs in support installation and unit mission requirements for Air Force personnel.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 5 **P-1 Line Item Number / Title:** 845550 / Fuels Support Equipment (FSE) **Aggregated Items Title:** Fuels Support Equipment (FSE)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
WRM FORCE																				
FORCE SERVICING (FS, RC, SC)	A		-	-	-	-	-	3.450	0.143	5	0.715	0.150	7	1.050	-	-	-	0.150	7	1.050
FUEL STORAGE (BLADDERS)	A		-	-	-	-	-	7.808	0.034	115	3.910	0.041	198	8.118	-	-	-	0.041	198	8.118
AERIAL BULK FUEL DELIVERY SYSTEM (ABFDS)	A		-	-	-	-	-	-	0.750	8	6.000	0.750	9	6.750	-	-	-	0.750	9	6.750
CRYOGENICS (LOX/ LIN TANKS)	A		-	-	-	-	-	4.140	0.090	2	0.180	0.150	3	0.450	-	-	-	0.150	3	0.450
FUELS PUMPING & DISTRIBUTION	A		-	-	-	12.290	1	12.290	-	-	-	0.250	2	0.500	-	-	-	0.250	2	0.500
FSE LAB Equipment	A		-	-	-	-	-	-	-	-	-	0.005	20	0.100	-	-	-	0.005	20	0.100
PMA OTHER GOVERNMENT CHARGES (FORCE)	A		-	-	-	-	-	0.407	-	-	0.400	-	-	-	-	-	-	-	-	-
PMA OTHER CONTRACTOR SERVICES (FORCE)	A		-	-	-	-	-	0.200	-	-	0.026	0.515	1	0.515	-	-	-	0.515	1	0.515
TRANSPORTATION MOORD	A		-	-	-	-	-	-	0.074	2	0.147	0.005	89	0.445	-	-	-	0.005	89	0.445
Subtotal: WRM FORCE			-	-	-	-	-	28.295	-	-	11.378	-	-	17.928	-	-	-	-	-	17.928
Total			-	-	-	-	-	28.295	-	-	11.378	-	-	17.928	-	-	-	-	-	17.928

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

Remarks:

FY22 includes 7.993M to procure items in support of European Deterrence Initiative (EDI).

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies, studies and Advisory and Administrative Services (A&AS).

PMA Other Contractor Services: This funding includes provisions for government contract oversight, technical expertise, and program office support associated with the FSE/FORCE program.

Requirements are subject to change based on shifts in both Air Force priorities and operational requirements in the year of execution.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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: 845990 / Base Maintenance and Support 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	58.285	73.698	48.534	-	48.534	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	58.285	73.698	48.534	-	48.534	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	58.285	73.698	48.534	-	48.534	-	-	-	-	-	-

(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:

FY21 funding totals include 30.65M in Overseas Contingency Operations.
 FY22 BY funding totals include 8.499M requested for Direct War and/or Enduring Requirements.

The FY22 funding request was reduced by \$2.153M to account for the availability of prior year execution balances.

This program provides a wide variety of base support items with worldwide application, to include but not limited to: Aircraft Arresting Systems; Aircraft Recovery Systems; Tools and Industrial Plant Equipment (IPE); Base Generator Power Systems, Deployable Debrief Facilities (DDF); Flight Line Fire Extinguishers; Cargo Pallet and Net systems; and Calibration Equipment.

This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

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

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

Funding for this exhibit contained in the following program elements: 0207521F, 0202834F, 0502834F, 0502844F, 0802834F.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	0	0	1	0	1	-	-	-
	Total Obligation Authority	57.450	72.065	46.868	0.000	46.868	-	-	-
AFNG	Quantity	0	0	0	0	0	-	-	-
	Total Obligation Authority	0.741	1.536	1.567	0.000	1.567	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force							Date: May 2021			
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: 845990 / Base Maintenance and Support 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										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AFR	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.094	0.097	0.099	0.000	0.099	-	-	-	-
Total: Secondary Distribution	Quantity	0	0	1	0	1	-	-	-	-
	Total Obligation Authority	58.285	73.698	48.534	0.000	48.534	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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:
845990 / Base Maintenance and Support Equipment

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Base Maintenance and Support Equipment				- / -	- / 58.285	- / 73.698	- / 48.534	- / -	- / 48.534
P-40	Total Gross/Weapon System Cost				- / -	- / 58.285	- / 73.698	- / 48.534	- / -	- / 48.534

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

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

Justification:
 FY22 will procure the following:
 Innovation Initiative Equipment:
 Requirement includes 250K to fund Chief of Staff of the Air Force (CSAF) Spark Tank innovation initiatives.

Cargo Pallets and Nets:
 Cargo Pallets & Nets provide an expedient means of loading and unloading cargo on transport aircraft across the DoD. Pallets & Nets also secure cargo to maintain aircraft balance which is crucial to safety of flight. 661 users across the DoD rely on Pallets & Nets to carry out their primary mission, through which capability and equipment are transported to all parts of the globe, enabling the execution of our National Defense Strategy.

Small Munitions Trailers, Aircraft Engine Trailers and industrial plant equipment:
 These trailer programs support the loading, moving and shipping of all numerous varieties of Munitions and aircraft Engines. Small Munitions Trailers program provides trailers (and associated accessories) capable of carrying up to 15,000 lbs of conventional munitions and up to 5,500 lbs of nuclear munitions in direct support to aircraft operations. These trailers carry bombs, missiles (Air-to-Air and Air-to-Ground), all calibers of ammunition, all countermeasures all decoys and practice bombs. Small Munitions Trailers directly support B-1, B-2, B-52, A-10, F-15, F16, F-22, C-5, C-17, C-130, AC-130, KC-46, KC-10 and KC-135 rated to carry munitions as cargo. The existing 40+ year old trailers have significant reliability and obsolescence issues as well as high overhaul repair costs. Currently, the cost to complete a depot overhaul of a legacy munition trailer is nearly twice the estimated procurement cost of a new trailer. Industrial plant equipment supports many back shop, off aircraft maintenance tasks that enable the flying mission such as milling/grinding machines, lathes, bead breakers, and 3,000 other items.

Base Calibration Standards (equipment):
 Funds calibration standards (equipment) for the Air Force Primary Standards Laboratory and 65 Precision Measurement Laboratories (PMEL) AF wide. These standards ensure PMEL measurements are traceable through the AFPSL to the National Institute of Standards and Technology. This traceability is critical to safety-of flight and sustainment of all AF weapon systems/base ops to include vehicle ops, communications, civil engineering, biomedical, and mobility TMDE. Enabling support for over 673k TMDE items for airlift, fighter, missile, nuclear deterrence, and cyber defense missions.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force																	Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 5						P-1 Line Item Number / Title: 845990 / Base Maintenance and Support Equipment						Aggregated Items Title: Base Maintenance and Support Equipment								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support Equipment and Vehicles (SEV)																				
INNOVATION INITIATIVE EQUIPMENT	A		-	-	-	-	-	-	-	-	0.250	1	0.250	-	-	-	0.250	1	0.250	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	-	-	-	-	1	0.250	-	-	-	-	1	0.250	
SMALL MUNITIONS TRAILERS RECAP (MHU-110/141)	A		-	-	-	-	-	11.950	-	-	15.482	-	-	17.966	-	-	-	-	17.966	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	11.950	-	-	15.482	-	-	17.966	-	-	-	-	17.966	
AIRCRAFT ARRESTING SYSTEM	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BASE GENERATOR POWER SYSTEMS	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BASE PALLETS AND NETS SYSTEMS	A		-	-	-	-	-	41.250	-	-	42.604	-	-	13.835	-	-	-	-	13.835	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	41.250	-	-	42.604	-	-	13.835	-	-	-	-	13.835	
TOOLS & INDUSTRIAL PLANT EQUIPMENT (IPE)	A		-	-	-	-	-	0.835	-	-	0.097	-	-	0.099	-	-	-	-	0.099	
<i>Secondary Distribution</i>																				
AFNG			-	-	-	-	-	0.741	-	-	-	-	-	-	-	-	-	-	-	
AFR			-	-	-	-	-	0.094	-	-	0.097	-	-	0.099	-	-	-	-	0.099	
PMA - OTHER GOVERNMENT COSTS	A		-	-	-	-	-	0.050	-	-	-	-	-	0.837	-	-	-	-	0.837	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.050	-	-	-	-	-	0.837	-	-	-	-	0.837	
PMA CONTRACTOR SERVICES	A		-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
AF			-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support Equipment and Vehicles (SEV)			-	-	-	-	-	54.285	-	-	58.183	-	-	32.987	-	-	-	-	32.987	
OTHER ORGANIZATIONS																				
AUTOMATED HIGH VACUUM	A		-	-	-	-	-	4.000	-	-	15.515	-	-	15.547	-	-	-	-	15.547	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 5	P-1 Line Item Number / Title: 845990 / Base Maintenance and Support Equipment	Aggregated Items Title: Base Maintenance and Support Equipment
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
GAUGE SYSTEM (AFMETCAL)																				
<i>Secondary Distribution</i>																				
AF				-	-		-	4.000		-	13.979		-	13.980		-	-		-	13.980
AFNG				-	-		-	-		-	1.536		-	1.567		-	-		-	1.567
Subtotal: OTHER ORGANIZATIONS			-	-	-	-	4.000		-	15.515		-	15.547		-	-		-	15.547	
Total			-	-	-	-	58.285		-	73.698		-	48.534		-	-		-	48.534	

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

Remarks:

FY22 Small Munitions Trailer includes 8.499M in support of European Deterrence Initiative (EDI).

This capability procures a multitude of related items with different unit costs

Exact quantities may vary based on real world requirements and priorities as established by the Major Commands. Deviations will be updated in the next budget cycle.

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies, studies and Advisory and Administrative Services (A&AS).

PMA Other Contractor Services: This funding includes provisions for government contract oversight, technical expertise, and program office support associated with the and Pallets and Nets program.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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: 846070 / DARP RC135
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305207F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	102.207	51.779	27.164	27.359	0.000	27.359	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	102.207	51.779	27.164	27.359	0.000	27.359	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	102.207	51.779	27.164	27.359	0.000	27.359	-	-	-	-	-	-

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

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

Description:

RC-135 procurement is executed by the Big Safari RC-135 Program Manager and is supported by various contractors. The contractors provide services including Program Depot Maintenance (PDM), prime mission equipment overhaul, special repair activity, in-plant support (sustainment engineering, software engineering, and program management), configuration management, LRU repair, and field service maintenance and training for special operational missions. The RC-135 Program Manager provides the full-range of weapons system management, acquisition oversight, program security and integrated logistics for the RC-135 aircraft, power plant, sensors and associated support and equipment. Due to the rapidly changing global threat environment, the Program Manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander and Intelligence Community (IC) requirements.

Funding for this exhibit contained in PE 0305207F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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: 846070 / DARP RC135
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305207F
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / DARP Modification (Capability Improvement)		A		- / 102.207	- / 51.779	- / 27.164	- / 27.359	- / 0.000	- / 27.359
P-40	Total Gross/Weapon System Cost				- / 102.207	- / 51.779	- / 27.164	- / 27.359	- / 0.000	- / 27.359

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

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

Justification:
 FY22 procurement funding acquires and installs various upgrade and enhancement modifications for ground support equipment associated with the RC-135 program. This ground support equipment is directly tied to fielded baselines of the RC-135 V/W RIVET JOINT, RC-135S COBRA BALL, and the RC-135U COMBAT SENT. The requirement to maintain commonality with fielded baselines necessitates the continuous modification and installation of upgrades concurrent with RC-135 aircraft entering operational status. These ground systems are critical to the post-mission processing of highly perishable intelligence information, and supporting aircrew proficiency training, virtual simulation exercises that contribute to distributed mission training initiatives, and provide support to indigenous maintenance during aircraft deployments to "bare-base locations. Additionally, all applicable ground support equipment is required to comply with NSA intelligence data recording formats and requirements due to the nature and sensitivity of the information.

Congressional adds in FY20 added \$25.063M of OPAF to replace equipment destroyed during the March 2019 flood at Offutt AFB, NE.

Ground support equipment includes, but is not limited to: RIVET JOINT Mission Trainer (RJMT), Ground Data Processing System (GDPS), Mission Crew Training System (MCTS), Modular Processing System (MPS), and the Airborne Capability Extension System (ACES).

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6	P-1 Line Item Number / Title: 846070 / DARP RC135	Modification Number / Title: 1 / DARP Modification

ID Code (A=Service Ready, B=Not Service Ready) : A			MDAP/MAIS Code:				
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	
Gross/Weapon System Cost (<i>\$ in Millions</i>)	102.207	51.779	27.164	27.359	0.000	27.359	
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	
Net Procurement (P-1) (<i>\$ in Millions</i>)	102.207	51.779	27.164	27.359	0.000	27.359	
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	
Total Obligation Authority (<i>\$ in Millions</i>)	102.207	51.779	27.164	27.359	0.000	27.359	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	

Description:

RC-135 procurement is executed by the Big Safari RC-135 Program Manager and is supported by various contractors. The contractors provide services including Program Depot Maintenance (PDM), prime mission equipment overhaul, special repair activity, in-plant support (sustainment engineering, software engineering, and program management), configuration management, LRU repair, and field service maintenance and training for special operational missions. The RC-135 Program Manager provides the full-range of weapons system management, acquisition oversight, program security and integrated logistics for the RC-135 aircraft, power plant, sensors and associated support and equipment. Due to the rapidly changing global threat environment, the Program Manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander and Intelligence Community (IC) requirements.

FY22 procurement funding acquires and installs various upgrade and enhancement modifications for ground support equipment associated with the RC-135 program. This ground support equipment is directly tied to fielded baselines of the RC-135 V/W RIVET JOINT, RC-135S COBRA BALL, and the RC-135U COMBAT SENT. The requirement to maintain commonality with fielded baselines necessitates the continuous modification and installation of upgrades concurrent with RC-135 aircraft entering operational status. These ground systems are critical to the post-mission processing of highly perishable intelligence information, and supporting aircrew proficiency training, virtual simulation exercises that contribute to distributed mission training initiatives, and provide support to indigenous maintenance during aircraft deployments to "bare-base locations. Additionally, all applicable ground support equipment is required to comply with NSA intelligence data recording formats and requirements due to the nature and sensitivity of the information.

Congressional adds in FY20 added \$25.063M of OPAF to replace equipment destroyed during the March 2019 flood at Offutt AFB, NE.

Ground support equipment includes, but is not limited to: Ground Data Processing System (GDPS), Mission Crew Training System (MCTS), Modular Processing System (MPS), and the Airborne Capability Extension System (ACES).

Milestone/Development Status

Fully Fielded Systems

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Exhibit P-3a, Individual Modification: PB 2022 Air Force						Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6			P-1 Line Item Number / Title: 846070 / DARP RC135			Modification Number / Title: 1 / DARP Modification	
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Models of Systems Affected: RC-135			Modification Type: Capability Improvement			Related RDT&E PEs: 0305207F	
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement							
Modification Item 1 of 1: BL Ground Systems							
A Kits							
Recurring							
BL Ground Systems:INSTALL KITS Group A (Active)	4 / 72.970	1 / 44.597	1 / 19.722	1 / 19.801	- / -	1 / 19.801	
Subtotal: Recurring	- / 72.970	- / 44.597	- / 19.722	- / 19.801	- / -	- / 19.801	
B Kits							
Recurring							
BL Ground Systems:EQUIPMENT Group B (Active)	4 / 24.949	1 / 6.110	1 / 6.370	1 / 6.486	- / -	1 / 6.486	
Subtotal: Recurring	- / 24.949	- / 6.110	- / 6.370	- / 6.486	- / -	- / 6.486	
Subtotal: BL Ground Systems	- / 97.919	- / 50.707	- / 26.092	- / 26.287	- / -	- / 26.287	
Subtotal: Procurement, All Modification Items	- / 97.919	- / 50.707	- / 26.092	- / 26.287	- / -	- / 26.287	
Installation							
Modification Item 1 of 1: BL Ground Systems							
Subtotal: Installation	4 / 4.288	1 / 1.072	1 / 1.072	1 / 1.072	- / -	1 / 1.072	
Total	102.207	51.779	27.164	27.359	0.000	27.359	

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6	P-1 Line Item Number / Title: 846070 / DARP RC135	Modification Number / Title: 1 / DARP Modification

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

Manufacturer Information

Manufacturer Name: L3Harris Technologies		Manufacturer Location: Greenville, TX	
Administrative Leadtime (in Months): 2		Production Leadtime (in Months): 6	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates	Dec 2019	Dec 2020	Dec 2021
Delivery Dates	Jun 2020	Jun 2021	Jun 2022

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 4.288	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	1 / 1.072	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	1 / 1.072	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	1 / 1.072	- / -	1 / 1.072
Total	4 / 4.288	1 / 1.072	1 / 1.072	1 / 1.072	- / -	1 / 1.072

Installation Schedule

	PYS	FY 2020				FY 2021				FY 2022			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
In	4	-	1	-	-	-	1	-	-	-	1	-	-
Out	4	-	-	-	1	-	-	-	1	-	-	-	1

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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):	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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	602.408	118.055	140.228	261.070	0.000	261.070	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	602.408	118.055	140.228	261.070	0.000	261.070	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	602.408	118.055	140.228	261.070	0.000	261.070	-	-	-	-	-	-

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

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

Description:

Air Force Distributed Common Ground System (AF DCGS) is the Combat Air Force (CAF) weapon system 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, federated 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 and supports the "kill chain across the full range of military operations. Currently, AF DCGS is composed of eight core sites (two active duty worldwide, three active duty regional and three Air National Guard regional), three remote Air Force Forces (AF FOR) sites, six SIGINT Distributed Mission Sites (four collocated with National Mission Partner), three Air National Guard full-motion video sites, three support sites, three training sites, and three integration and test sites. AF DCGS currently supports ongoing operations from forward deployed and in-garrison CONUS and OCONUS-based locations. AF DCGS provides integrated ISR by providing quality, fused Geospatial Intelligence (GEOINT), Signals Intelligence (SIGINT), and Measurement and Signature Intelligence (MASINT) tailored to the warfighter for all levels of conflict.

In alignment with DoD and AF direction, AF DCGS is migrating to an open architecture to rapidly incorporate new technologies and tools to easily integrate new and/or improved sensor capabilities, as well as provide improved mission applications to meet emerging and urgent operational needs. AF DCGS integrates services and applications from both commercial-off-the-shelf and government-off-the-shelf sources to the maximum extent possible to fulfill operational requirements and data sharing requirements across the DoD DCGS community. The next iteration will involve transitioning to a hybrid cloud (mix of private on premise and public cloud) architecture.

Program management consists of five ACAT III efforts: GEOINT Transformation, SIGINT Transformation, Multi-INT, Network Infrastructure Transformation, and DCGS Reference Imagery Transition (DRT)

1. GEOINT Transformation: Rapidly integrates new GEOINT capabilities, enables quick/seamless integration of new sensors, data types, sensor planning, and command and control (C2) capabilities and migrates GEOINT-specific applications into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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):	Program Elements for Code B Items: 0305208F	Other Related Program Elements: 0305208F, 0305240F
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Line Item MDAP/MAIS Code: N/A

2. SIGINT Transformation: Rapidly integrates new SIGINT capabilities, enables quick/seamless integration of new sensors, data types, sensor planning, command and control (C2) capabilities and migrates SIGINT-specific applications into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.

3. Multi-INT-1: Rapidly integrates new and updated enterprise applications, to include voice/video/chat communications, collaboration and situational awareness, multi-INT fusion, and data analytics capabilities into the open architecture framework. Also includes Intelligent Modeling and Predictive Analysis of Cyberspace Targeting (IMPACT) program, which develops concepts, Tactics/Techniques/Procedures (TTPs) and technologies for synchronizing ISR and non-kinetic capabilities. Addressees program office test and evaluation activities.

4. Network Infrastructure Transformation: Modernizes the AF DCGS infrastructure to a cyber-resilient, open, scalable, commercial-based, architecture, improving data ingest, transfer, and storage capabilities, collaboration, and content driven discovery. OA DCGS Platform as a Service, along with migration to a hub-based architecture and public cloud represents the AF DCGS hybrid cloud (mix of private on premise and public cloud) architecture.

5. *DRT: The Air Force DCGS Reference Imagery Transition (DRT) effort provides data ingest, transfer, and storage capabilities for NGA reference imagery data.

NOTES:
*No additional funding planned in FY20 or out years; ACAT will be closed once the capability is installed at all sites

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

Funding for this exhibit Line Item # 846080 is contained in PEs 0305208F and 0305240F.

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

BY funding totals include \$40.940M requested for Direct War.

Program Management Administration (PMA): FY22 funding permits the System Program Office (SPO) to support the fielding and installation of new and developing capabilities. This includes the initial bed down and operability testing, technical interchange meetings, and events incident to fielding both hardware and software products, and maintaining configuration control of fielded products.

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.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AF	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	118.055	140.228	261.070	0.000	261.070	-	-	-	-
AFNG	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	-	-	-	-
AFR	Quantity	0	0	0	0	0	-	-	-	-
	Total Obligation Authority	0.000	0.000	0.000	0.000	0.000	-	-	-	-
Total:	Quantity	0	0	0	0	0	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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):	Program Elements for Code B Items: 0305208F	Other Related Program Elements: 0305208F, 0305240F
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondary Distribution	Total Obligation Authority	118.055	140.228	261.070	0.000	261.070	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects		P-1 Line Item Number / Title: 846080 / DCGS - AF
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0305208F	Other Related Program Elements: 0305208F, 0305240F
Line Item MDAP/MAIS Code: N/A		

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Distributed Common Ground/Surface Systems				- / 28.111	- / 0.000	- / 0.000	- / 9.700	- / 0.000	- / 9.700
P-3a	1 / GEOINT Transformation (GEOINT) (Reliability & Maintainability)		B		- / 87.056	- / 32.898	- / 42.502	- / 37.399	- / 0.000	- / 37.399
P-3a	2 / Signals Intelligence (SIGINT) (Reliability & Maintainability)		B		- / 78.198	- / 27.259	- / 35.189	- / 24.835	- / 0.000	- / 24.835
P-3a	3 / Multi-Intelligence (Multi-INT) (Reliability & Maintainability)		B		- / 67.541	- / 12.987	- / 26.783	- / 41.244	- / 0.000	- / 41.244
P-3a	4 / Network Infrastructure Transformation (Reliability & Maintainability)		B		- / 341.502	- / 22.993	- / 13.466	- / 23.118	- / 0.000	- / 23.118
P-40a	Support to DCGS Enterprise				- / -	- / 21.918	- / 22.288	- / 124.774	- / -	- / 124.774
P-40	Total Gross/Weapon System Cost				- / 602.408	- / 118.055	- / 140.228	- / 261.070	- / 0.000	- / 261.070

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

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

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2022 Air Force															Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6					P-1 Line Item Number / Title: 846080 / DCGS - AF					Aggregated Modification Items Title: Distributed Common Ground/Surface Systems									

Item Number / Title	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
DGS-5 / DGS-5 (Hawaii) Upgrade			-	-	-	-	-	-	-	-	-	-	-	9.700	-	-	-	-	-	9.700
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		-	9.700		-	-		-	9.700
DCGS13 / NASIC			-	-	2.200		-	-		-	-		-	0.000		-	-		-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		-	0.000		-	-		-	0.000
DCGS5 / Sensor Integration			-	-	17.687		-	0.000		-	-		-	0.000		-	-		-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	-		-	0.000		-	-		-	0.000
DCGS8 / DCGS Reference Imagery Transition (DRT)			-	-	8.224		-	-		-	-		-	0.000		-	-		-	0.000
<i>Secondary Distribution</i>																				
AF				-	-		-	-		-	-		-	0.000		-	-		-	0.000
Total			-	-	28.111		-	0.000		-	0.000		-	9.700		-	0.000		-	9.700

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

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
DGS-5 / DGS-5 (Hawaii) Upgrade	0305208	Reliability & Maintainability
DCGS13 / NASIC	0305208F	Reliability & Maintainability
DCGS5 / Sensor Integration	0305208F	Reliability & Maintainability
DCGS8 / DCGS Reference Imagery Transition (DRT)	0305208F	Reliability & Maintainability

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6	P-1 Line Item Number / Title: 846080 / DCGS - AF	Modification Number / Title: 1 / GEOINT Transformation (GEOINT)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	87.056	32.898	42.502	37.399	0.000	37.399
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	87.056	32.898	42.502	37.399	0.000	37.399
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	87.056	32.898	42.502	37.399	0.000	37.399

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

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

Description:

GEOINT Transformation: Rapidly integrates new GEOINT capabilities, enables quick/seamless integration of new sensors, data types, sensor planning, and command and control (C2) capabilities and migrates GEOINT-specific applications into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.

Justification: FY22 funding will

- Procure High Altitude GEOINT and FMV Agile Release Train equipment and services to rapidly integrate and field new GEOINT-specific capabilities on Open Architecture (OA) DCGS
- Procure, integrate and field GEOINT sensor/sensor modes into workflow and exploitation processes (Advanced Synthetic Aperture Radar System (ASARS) 2B/C & Hyperspectral Chip (H-CHIP))
- Procure, integrate and field Enterprise Collection Planner (ECP) Sensor Command and Control (C2) and Mission Planning Capability

Milestone/Development Status

AF DCGS is in the Operations and Sustainment phase of the acquisition lifecycle. The weapon system has been declared FOC, and all modifications are being implemented in accordance with AFI 63-101.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	32.898	42.502	37.399	-	37.399
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	32.898	42.502	37.399	0.000	37.399

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Exhibit P-3a, Individual Modification: PB 2022 Air Force					Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6			P-1 Line Item Number / Title: 846080 / DCGS - AF		Modification Number / Title: 1 / GEOINT Transformation (GEOINT)	
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:		
Models of Systems Affected: DCGS		Modification Type: Reliability & Maintainability			Related RDT&E PEs:	
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement						
<i>Modification Item 1 of 1: GEOINT Transformation</i>						
B Kits						
Recurring						
GEOINT Transformation:EQUIPMENT Group B (Active)	- / 84.644	- / 30.488	- / 39.320	- / 33.748	- / -	- / 33.748
<i>Subtotal: Recurring</i>	<i>- / 84.644</i>	<i>- / 30.488</i>	<i>- / 39.320</i>	<i>- / 33.748</i>	<i>- / -</i>	<i>- / 33.748</i>
<i>Subtotal: GEOINT Transformation</i>	<i>- / 84.644</i>	<i>- / 30.488</i>	<i>- / 39.320</i>	<i>- / 33.748</i>	<i>- / -</i>	<i>- / 33.748</i>
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 84.644</i>	<i>- / 30.488</i>	<i>- / 39.320</i>	<i>- / 33.748</i>	<i>- / -</i>	<i>- / 33.748</i>
Support (All Modification Items)						
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000
PMA - Other Gov't Costs	- / 0.118	- / 0.085	- / 0.107	- / 0.107	- / -	- / 0.107
PMA - Contractor Services	- / 2.294	- / 2.325	- / 3.075	- / 3.544	- / -	- / 3.544
<i>Subtotal: Support</i>	<i>- / 2.412</i>	<i>- / 2.410</i>	<i>- / 3.182</i>	<i>- / 3.651</i>	<i>- / -</i>	<i>- / 3.651</i>
Installation						
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>
Total						
Total Cost (Procurement + Support + Installation)	87.056	32.898	42.502	37.399	0.000	37.399

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6		P-1 Line Item Number / Title: 846080 / DCGS - AF	
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:	
Modification Item 1 of 1: GEOINT Transformation			
Manufacturer Information			
Manufacturer Name: Various		Manufacturer Location: Robins AFB	
Administrative Leadtime (in Months): 0		Production Leadtime (in Months): 0	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates			
Delivery Dates			
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6	P-1 Line Item Number / Title: 846080 / DCGS - AF	Modification Number / Title: 2 / Signals Intelligence (SIGINT)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	78.198	27.259	35.189	24.835	0.000	24.835
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	78.198	27.259	35.189	24.835	0.000	24.835
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	78.198	27.259	35.189	24.835	0.000	24.835

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

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

Description:

SIGINT Transformation: Rapidly integrates new SIGINT capabilities, enables quick/seamless integration of new sensors, data types, sensor planning, command and control (C2) capabilities and migrates SIGINT-specific applications into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.

Justification: FY22 funding will

- Procure, integrate and field SIGINT-specific capabilities on Open Architecture (OA) by the SIGINT Modernization Agile Release Train
- Procure, integrate and field new data types into SIGINT Sensor Data Ingest (SSDI)
- Procure, integrate and field sensor modifications and new SIGINT sensors (Airborne Signals Intelligence Payload (ASIP) /High Altitude Sensor (HAS) / Global High-altitude Open-system Sensor Technology (GHOST))

Milestone/Development Status

AF DCGS is in the Operations and Sustainment phase of the acquisition lifecycle. The weapon system has been declared FOC, and all modifications are being implemented in accordance with AFI 63-101.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	27.259	35.189	24.835	-	24.835
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	0.000	-	0.000
AFR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	0.000	-	0.000
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	27.259	35.189	24.835	0.000	24.835

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Exhibit P-3a, Individual Modification: PB 2022 Air Force					Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6			P-1 Line Item Number / Title: 846080 / DCGS - AF		Modification Number / Title: 2 / Signals Intelligence (SIGINT)	
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:		
Models of Systems Affected: 0305208F		Modification Type: Reliability & Maintainability		Related RDT&E PEs: 0305208F		
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement						
<i>Modification Item 1 of 1: Signals Intelligence Transformation</i>						
B Kits						
Recurring						
Signals Intelligence Transformation:EQUIPMENT Group B (Active)	- / 76.545	- / 25.400	- / 32.462	0 / 21.706	- / -	0 / 21.706
Signals Intelligence Transformation:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000
Signals Intelligence Transformation:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000
<i>Subtotal: Recurring</i>	- / 76.545	- / 25.400	- / 32.462	- / 21.706	- / -	- / 21.706
<i>Subtotal: Signals Intelligence Transformation</i>	- / 76.545	- / 25.400	- / 32.462	- / 21.706	- / -	- / 21.706
<i>Subtotal: Procurement, All Modification Items</i>	- / 76.545	- / 25.400	- / 32.462	- / 21.706	- / -	- / 21.706
Support (All Modification Items)						
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000
PMA - Contractor Services	- / 1.505	- / 1.819	- / 2.682	- / 3.083	- / -	- / 3.083
PMA - Other Gov't Costs	- / 0.148	- / 0.040	- / 0.045	- / 0.046	- / -	- / 0.046
<i>Subtotal: Support</i>	- / 1.653	- / 1.859	- / 2.727	- / 3.129	- / -	- / 3.129
Installation						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)	78.198	27.259	35.189	24.835	0.000	24.835

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6		P-1 Line Item Number / Title: 846080 / DCGS - AF	
Modification Number / Title: 2 / Signals Intelligence (SIGINT)		ID Code (A=Service Ready, B=Not Service Ready) : B	
		MDAP/MAIS Code:	
Modification Item 1 of 1: Signals Intelligence Transformation			
Manufacturer Information			
Manufacturer Name: various		Manufacturer Location: various	
Administrative Leadtime (in Months): 0		Production Leadtime (in Months): 0	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates			
Delivery Dates			
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6	P-1 Line Item Number / Title: 846080 / DCGS - AF	Modification Number / Title: 3 / Multi-Intelligence (Multi-INT)

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

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	67.541	12.987	26.783	41.244	0.000	41.244
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	67.541	12.987	26.783	41.244	0.000	41.244
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	67.541	12.987	26.783	41.244	0.000	41.244

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

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

Description:

Multi-INT-1: Rapidly integrates new and updated enterprise applications, to include voice/video/chat communications, collaboration and situational awareness, multi-INT fusion, and data analytics capabilities (to include Artificial Intelligence and Machine Learning (AI/ML)), and line of site capabilities into the open architecture framework. Also includes Intelligent Modeling and Predictive Analysis of Cyberspace Targeting (IMPACT) program, which develops concepts, Tactics/Techniques/Procedures (TTPs) and technologies for synchronizing ISR and non-kinetic capabilities. Addressees program office test and evaluation activities.

Justification: FY22 funding will

- Procure, integrate and field Enterprise Communications Capabilities
- Procure, integrate and field Multi-INT and data analytics capabilities for Open Architecture (OA) DCGS
- Procure, integrate and field Distributed Surface Asset (DDSA) capabilities to remain compatible with Common Data Link modernization to support air-side downlink capabilities

Milestone/Development Status

AF DCGS is in the Operations and Sustainment phase of the acquisition lifecycle. The weapon system has been declared FOC, and all modifications are being implemented in accordance with AFI 63-101.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	12.987	26.783	41.244	-	41.244
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	12.987	26.783	41.244	0.000	41.244

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Exhibit P-3a, Individual Modification: PB 2022 Air Force					Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6			P-1 Line Item Number / Title: 846080 / DCGS - AF		Modification Number / Title: 3 / Multi-Intelligence (Multi-INT)	
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:		
Models of Systems Affected: 0305208F		Modification Type: Reliability & Maintainability		Related RDT&E PEs:		
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement						
<i>Modification Item 1 of 1:</i> Multi-Int Upgrades						
B Kits						
Recurring						
Multi-Int Upgrades:EQUIPMENT Group B (Active)	- / 66.058	- / 12.023	- / 24.692	- / 38.845	- / -	- / 38.845
<i>Subtotal: Recurring</i>	- / 66.058	- / 12.023	- / 24.692	- / 38.845	- / -	- / 38.845
<i>Subtotal: Multi-Int Upgrades</i>	- / 66.058	- / 12.023	- / 24.692	- / 38.845	- / -	- / 38.845
<i>Subtotal: Procurement, All Modification Items</i>	- / 66.058	- / 12.023	- / 24.692	- / 38.845	- / -	- / 38.845
Support (All Modification Items)						
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000
PMA - Other Gov't Costs	- / 0.115	- / 0.065	- / 0.077	- / 0.092	- / -	- / 0.092
PMA - Contractor Services	- / 1.368	- / 0.899	- / 2.014	- / 2.307	- / -	- / 2.307
<i>Subtotal: Support</i>	- / 1.483	- / 0.964	- / 2.091	- / 2.399	- / -	- / 2.399
Installation						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
Total						
Total Cost (Procurement + Support + Installation)	67.541	12.987	26.783	41.244	0.000	41.244

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6		P-1 Line Item Number / Title: 846080 / DCGS - AF	
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:	
Modification Item 1 of 1: Multi-Int Upgrades			
Manufacturer Information			
Manufacturer Name: Various		Manufacturer Location: Various	
Administrative Leadtime (<i>in Months</i>): 0		Production Leadtime (<i>in Months</i>): 0	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates			
Delivery Dates			
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6	P-1 Line Item Number / Title: 846080 / DCGS - AF	Modification Number / Title: 4 / Network Infrastructure Transformation

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

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	341.502	22.993	13.466	23.118	0.000	23.118
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	341.502	22.993	13.466	23.118	0.000	23.118
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	341.502	22.993	13.466	23.118	0.000	23.118

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

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

Description:

Network Infrastructure Transformation: Modernizes the AF DCGS infrastructure to a cyber-resilient, open, scalable, commercial-based, architecture, improving data ingest, transfer and storage capabilities, collaboration, and content driven discovery. OA DCGS Platform as a Service, along with migration to a hub-based architecture and public cloud represents the AF DCGS mission-assured hybrid cloud (mix of private on premise and public cloud) architecture.

Justification: FY22 funding will

- Procure, integrate and field Open Architecture network infrastructure
- Procure, integrate and field mission-assured hybrid-cloud infrastructure and enterprise services
- Procure, integrate and field digital network equipment to address diminishing manufacturing sources (DMS) issues associated with the current Asynchronous Transfer Mode (ATM) Network

Milestone/Development Status

AF DCGS is in the Operations and Sustainment phase of the acquisition lifecycle. The weapon system has been declared FOC, and all modifications are being implemented in accordance with AFI 63-101.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AF	Quantity	-	-	-	-	-
	Total Obligation Authority	22.993	13.466	23.118	-	23.118
AFNG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	0.000	-	0.000
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	22.993	13.466	23.118	0.000	23.118

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2022 Air Force					Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6			P-1 Line Item Number / Title: 846080 / DCGS - AF		Modification Number / Title: 4 / Network Infrastructure Transformation	
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:		
Models of Systems Affected: 0305208F		Modification Type: Reliability & Maintainability		Related RDT&E PEs:		
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement						
<i>Modification Item 1 of 1: Network Infrastructure</i>						
B Kits						
Recurring						
Network Infrastructure:EQUIPMENT Group B (Active)	- / 276.186	- / 21.340	- / 12.502	- / 21.810	- / -	- / 21.810
Network Infrastructure:EQUIPMENT Group B (Guard)	- / 55.400	- / -	- / -	- / 0.000	- / -	- / 0.000
<i>Subtotal: Recurring</i>	<i>- / 331.586</i>	<i>- / 21.340</i>	<i>- / 12.502</i>	<i>- / 21.810</i>	<i>- / -</i>	<i>- / 21.810</i>
<i>Subtotal: Network Infrastructure</i>	<i>- / 331.586</i>	<i>- / 21.340</i>	<i>- / 12.502</i>	<i>- / 21.810</i>	<i>- / -</i>	<i>- / 21.810</i>
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 331.586</i>	<i>- / 21.340</i>	<i>- / 12.502</i>	<i>- / 21.810</i>	<i>- / -</i>	<i>- / 21.810</i>
Support (All Modification Items)						
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000
PMA - Other Gov't Costs	- / 0.463	- / 0.146	- / 0.070	- / 0.072	- / -	- / 0.072
PMA - Contractor Services	- / 9.453	- / 1.507	- / 0.894	- / 1.236	- / -	- / 1.236
<i>Subtotal: Support</i>	<i>- / 9.916</i>	<i>- / 1.653</i>	<i>- / 0.964</i>	<i>- / 1.308</i>	<i>- / -</i>	<i>- / 1.308</i>
Installation						
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>
Total						
Total Cost (Procurement + Support + Installation)	341.502	22.993	13.466	23.118	0.000	23.118

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Exhibit P-3a, Individual Modification: PB 2022 Air Force		Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6		P-1 Line Item Number / Title: 846080 / DCGS - AF	
Modification Number / Title: 4 / Network Infrastructure Transformation			
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:	
Modification Item 1 of 1: Network Infrastructure			
Manufacturer Information			
Manufacturer Name: Various		Manufacturer Location: Various	
Administrative Leadtime (in Months): 0		Production Leadtime (in Months): 0	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates			
Delivery Dates			
Installation Information			
Method of Implementation (Organic): Org/Intermediate		Installation Quantity: 0	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6 **P-1 Line Item Number / Title:** 846080 / DCGS - AF **Aggregated Items Title:** Support to DCGS Enterprise

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support to DCGS Enterprise																				
Virtual Imagery Processing	A		-	-	-	-	-	3.752	-	-	3.495	-	-	3.600	-	-	-	-	-	3.600
<i>Secondary Distribution</i>																				
AF				-	-		-	3.752		-	3.495		-	3.600		-	-		-	3.600
Relay Next	A		-	-	-	-	-	18.166	-	-	18.793	-	-	15.370	-	-	-	-	-	15.370
<i>Secondary Distribution</i>																				
AF				-	-		-	18.166		-	18.793		-	15.370		-	-		-	15.370
Digital Ground Terminal and Services	A		-	-	-	-	-	0.000	-	-	0.000	-	-	73.964	-	-	-	-	-	73.964
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	0.000		-	73.964		-	-		-	73.964
GEOINT High Performance Cpmputing	A		-	-	-	-	-	0.000	-	-	0.000	-	-	16.000	-	-	-	-	-	16.000
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	0.000		-	16.000		-	-		-	16.000
Deployable Surface Terminal (DST)	A		-	-	-	-	-	0.000	-	-	0.000	-	-	15.840	-	-	-	-	-	15.840
<i>Secondary Distribution</i>																				
AF				-	-		-	0.000		-	0.000		-	15.840		-	-		-	15.840
Subtotal: Support to DCGS Enterprise			-	-	-	-	-	21.918	-	-	22.288	-	-	124.774	-	-	-	-	-	124.774
Total			-	-	-	-	-	21.918	-	-	22.288	-	-	124.774	-	-	-	-	-	124.774

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	917.148	731.941	777.652	-	777.652	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	917.148	731.941	777.652	-	777.652	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	917.148	731.941	777.652	-	777.652	-	-	-	-	-	-

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

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

Description:

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

Justification:

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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: 861350 / Spares and Repair Parts (Cyber)
---	--

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	1.664	0.978	-	0.978	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	1.664	0.978	-	0.978	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	1.664	0.978	-	0.978	-	-	-	-	-	-

(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 supports Cyberspace Activities
 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.

Starting in FY21 funding for PE 0303140F, Information Systems Security Program (ISSP) Initial Spares moved from 861900 to 861350.

Justification:

Information Systems Security Program (ISSP): FY22 funding (\$0.978M) is required to support Vinson/ANDVT Cryptographic Modernization (VACM), Air and Ground (A&G), and Key Management Enterprise (KME) which supplies crypto devices to all Services/ Agencies to meet an NSA cybersecurity mandate for warfighter air and ground radio networks.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

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
--	---	--

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	104.303	19.847	9.575	-	9.575	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	104.303	19.847	9.575	-	9.575	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	104.303	19.847	9.575	-	9.575	-	-	-	-	-	-

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

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

Description:

Initial Spares consist of reparable components, assemblies, subassemblies, and consumable items required as initial stock (including readiness spares package requirements) in support of newly fielded vehicles, communications electronics and telecommunications equipment, and other base maintenance and support equipment items. Requirements are determined by applying established factors against the acquisition cost of the end items. The factors are based on historical data of similar equipment, employment/deployment concepts, production schedules, and other related information.

The following Major Defense Acquisition Program (MDAP) has funding in this line:

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 05: Spares and Repair Parts / BSA 1: Spares And Repair Parts

P-1 Line Item Number / Title:
861900 / Spares And Repair Parts

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-18	Spares and Repair Parts				- / -	- / 104.303	- / 19.847	- / 9.575	- / 0.000	- / 9.575
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 104.303	- / 19.847	- / 9.575	- / -	- / 9.575

Title represents the P-18 Title for Spares.

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

Justification:
 ATCALs: FY22 funding (\$1.307M) is required to support the Digital Air Traffic Control Radio (\$1.000M) and Man-Portable TACAN (\$0.307M) programs. Required initial spares are a combination of complete assemblies, subassemblies, or in special circumstances piece-part items. Selection is based on the Interim Support Items List, historical data from similar systems or components, or sparing models, and are sized to ensure system availability requirements are met.

Combat Training Range Equipment: FY22 funds (\$2.866M) spare parts and equipment to support fielding of Joint Threat Emitters, Advanced Radar Threat Systems Variants 1 & 2, and Modernization. Spares include, but not limited to replacement components, equipment and parts.

Deployable C3: FY22 funding (\$2.111M) is required to support initial spares for the Flexible Communications Package (FCP) being incorporated into the Joint Task Force (JTF). These spares and repair parts are unique and critical items required to be available for each individual fielding location.

Expeditionary Airfield Basing Assets: FY22 funds (\$3.278M) mission readiness support kits for War Reserve Material (WRM) Unit Type Codes (UTC). These support kits include necessary components to ensure proper operation of equipment within UTC package. These UTC kits packages, but are not limited to, Power Production, Feeding, Water Production, Billeting, Maintenance Facilities, and HVAC. Also, mission essential spare parts are procured utilizing this funding.

Expeditionary Airfield Basing Assets: FY22 European Defense Initiative (EDI) OCO funds (\$.994M) mission readiness support kits for War Reserve Material (WRM) Unit Type Codes (UTC). These support kits include necessary components to ensure proper operation of equipment within UTC package. These UTC kits packages, but are not limited to, Power Production, Feeding, Water Production, Billeting, Maintenance Facilities, and HVAC. Also, mission essential spare parts are procured utilizing this funding.

Information Systems Security Program (ISSP): Starting in FY21 funding for PE 0303140F, Information Systems Security Program (ISSP) Initial Spares moved from 861900 to 861350.

Wide Area Surveillance (WAS): FY22 funding (\$0.013M) is required to support operational WAS Stateside Affordable Radar System (STARS) sites and Scorpion sites. These spares and repair parts are uniquely site-specific, critical items required to be completed while the initial manufacturing line is set up for each individual fielding location.

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2022 Air Force					Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 05 / 1		P-1 Line Item Number / Title: 861900 / Spares And Repair Parts			Title: Spares and Repair Parts	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2020 (\$ M)	FY 2021 (\$ M)	FY 2022 Base (\$ M)	FY 2022 OCO (\$ M)	FY 2022 Total (\$ M)
Initial						
BA 05 - Spares and Repair Parts						
861900 / Air Traffic Control, Approach, and Landing System (ATCALs)	-	1.394	1.451	1.307	0.000	1.307
861900 / Combat Training Range Equipment	-	20.910	8.241	2.866	0.000	2.866
861900 / Deployable C3 Systems	-	1.985	1.983	2.111	0.000	2.111
861900 / Expeditionary Airfield Basing Assets	-	2.232	6.268	3.278	0.000	3.278
861900 / Information Systems Security Program	-	1.605	-	0.000	0.000	0.000
861900 / Manned Reconnaissance Systems	-	4.375	-	0.000	0.000	0.000
861900 / Minimum Essential Emergency Communications Network (MEECN)	-	68.795	-	0.000	0.000	0.000
861900 / Wide Area Surveillance Spares	-	3.007	1.904	0.013	0.000	0.013
Subtotal: Initial	-	104.303	19.847	9.575	0.000	9.575
Total Cost (Initial + Replenishment)	-	104.303	19.847	9.575	0.000	9.575

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